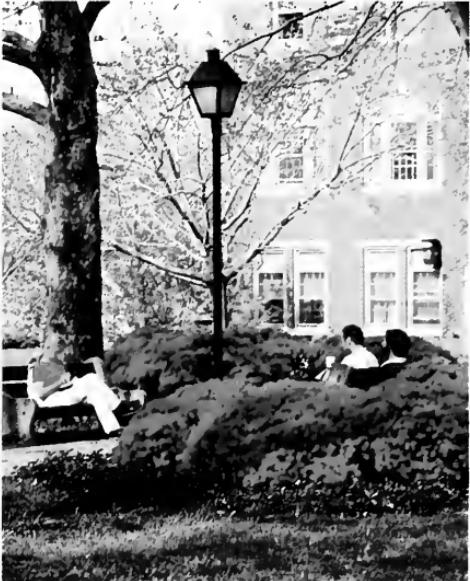




# La Salle University

Bulletin 1987-1988



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# La Salle University

BULLETIN

1987-1988

CATALOG ISSUE  
A LIBERAL ARTS UNIVERSITY  
FOR MEN AND WOMEN  
CONDUCTED BY  
BROTHERS OF THE CHRISTIAN SCHOOLS  
PHILADELPHIA, PENNSYLVANIA 19141  
215-951-1000

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## AN EQUAL OPPORTUNITY UNIVERSITY

La Salle University does not discriminate against any applicant because of race, color, creed, sex, age, physical handicap, or national origin. Admission is based upon an applicant's qualifications and ability to meet the established requirements for admission and for specific programs.

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### ACCREDITATION AND MEMBERSHIPS

La Salle University was chartered in 1863 by the Legislature of the Commonwealth of Pennsylvania and is empowered by that authority to grant academic degrees. It is accredited with the Middle States Association of Colleges and Secondary Schools, the Pennsylvania Department of Education, the Regents of the University of the State of New York, the American Chemical Society, the Pennsylvania State Board of Law Examiners and the Council on Social Work Education.

Member of: American Council on Education, Association of American Colleges, Association of College and University Housing Officers, College Entrance Examination Board, American Association of Collegiate Registrars and Admissions Officers, Association of College Admissions Counselors, National Catholic Educational Association, College and University Council of Pennsylvania, Association of Liberal Arts Colleges of Pennsylvania for the Advancement of Teaching, Pennsylvania Catholic Education Association, American Library Association, National Commission on Accrediting, American Catholic Historical Society, Educational Conference of the Brothers of the Christian Schools, National Association for Foreign Student Affairs, and National Association of Student Personnel Administrators.

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### RIGHTS AND PRIVACY ACT PROVISIONS

**2**

Each year, La Salle University informs students of the Family Educational Rights and Privacy Act of 1974. This Act was intended to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal or formal hearings.

To fulfill basic requirements for compliance with the Act, each institution must inform each student of his/her right to prevent disclosure of personally identifiable information. Although La Salle does not publish a public directory, the Office of the Registrar, at its discretion, does disclose the following information: Name, address, dates of attendance, class, major field of study, and degree(s) conferred (including dates).

Under the provisions of the Rights and Privacy Act, currently enrolled students may withhold disclosure of such information. To prevent disclosure, written notification must be received by the Office of the Registrar by October 1st in the Fall Semester and February 15th in the Spring Semester. The University will honor each request to withhold any of the categories of information listed above but cannot assume responsibility to contact a student for subsequent permission to release them. Decisions about withholding any information should be made very carefully. Should a student decide to inform the institution not to release any information, any future requests for such information from non-institutional persons or organizations will be refused.

La Salle University assumes that failure to request the withholding of "directory information" indicates approval for disclosure.

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# A Profile

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# To Introduce Ourselves . . .

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In this short profile, we'd like to tell you a few important details about La Salle, one of Pennsylvania's oldest colleges and newest universities. Founded in 1863, La Salle College became La Salle University in 1984. La Salle University today is a private comprehensive university related to the Roman Catholic Church and conducted under the auspices of the Christian Brothers. We hope these facts will help you to get to know us better and to share our pride in more than a century of educational excellence.

La Salle is one of two institutions of higher education in the East conducted by the Christian Brothers (the other being Manhattan College). The Brothers were founded by St. John Baptist de La Salle in the 17th century. For more than 300 years, the order has been known for dedicated teaching and devotion to students. The spirit of the order carries over to the faculty and administration of La Salle University where diverse backgrounds unite to carry out the objectives of the University in an atmosphere of respect for the individual.

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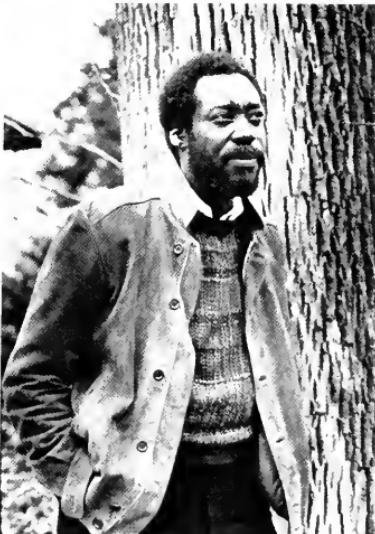
We think La Salle is big enough for efficiency, yet small enough to stimulate personal contacts between students and teachers. The day division enrolls 3200 men and women. The average class size is 20 students; there are no lecture sections numbered in the hundreds and no graduate assistants handling basic courses or marking papers for professors who do not know their own students. Yet the University is large enough to offer 30 different degree programs or special concentrations.

La Salle is located in the northwestern section of Philadelphia on the edge of Germantown, site of a Revolutionary War battle, and one of the oldest neighborhoods in Philadelphia. The campus covers over 85 acres and includes Belfield, a farm that once belonged to the American painter, Charles Willson Peale. Entering the campus from one of the busy city streets around it has been described by one visitor as "entering a place of quiet beauty. It's hard to believe you're in a large city." But Philadelphia is a large city, filled with interesting people, places and events. The University is less than half an hour from center city's museums, concert halls, restaurants, sporting events, and shopping. The school is only two hours away from Pocono Mountain ski resorts or the boardwalks and beaches of the Jersey shore.



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*Dr. Edward Steinmiller, M.D., is Dean of the Medical School of the University of Pennsylvania.*



*Pulitzer Prize-winning playwright Charles Fuller also won an Academy Award nomination for the screenplay of "A Soldier's Story."*



*Philadelphia Stock Exchange president Nicholas Giordano is one of many business leaders who graduated from La Salle University.*



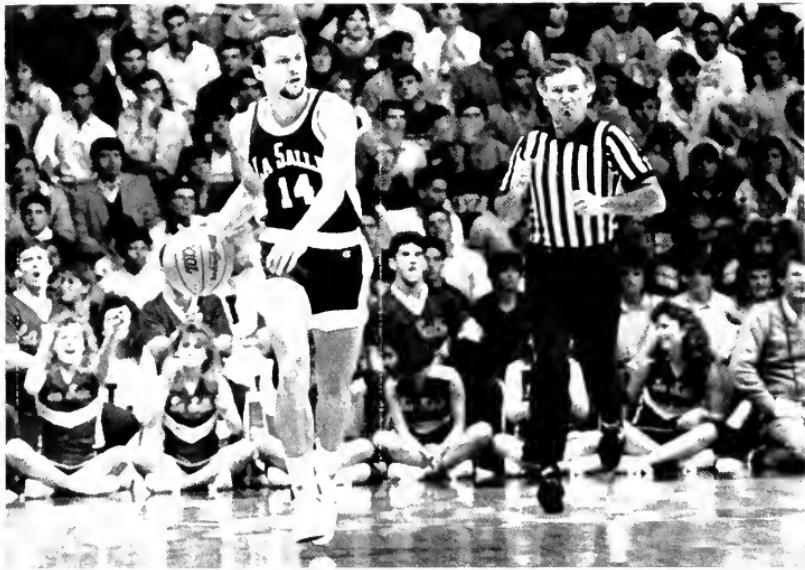
*Dennis Cunningham, CBS-TV's drama critic in New York, is both an alumnus and a former member of the English department faculty.*

How good is La Salle academically? A good academic institution has a talented faculty, good students, and a solid library. A glance at the faculty directory at the end of this catalog will demonstrate the sound academic credentials of the La Salle faculty; what it does not show is the dedication to teaching and to students that is the greatest strength of the faculty. About 70% of last year's freshmen graduated in the top 40% of their high school class, but the statistics don't show the many students who entered La Salle with less-than-superb high school records and matured and blossomed in the atmosphere of this University. The library has over 300,000 volumes, carefully selected to meet the needs of our students; a new state-of-the-art library to house the growing collection is being built. The library will be open in the fall of 1988.

Another measure of La Salle's academic standing: how many of our graduates went on to earn Ph.D.'s? In a study of 200 top liberal arts institutions, La Salle ranked in the top 21% as originating school for doctorates in the arts and humanities and in the upper 30% overall.

What do the Dean of Villanova University Law School, the Dean of the Medical School at the University of Pennsylvania, the president of the Philadelphia Stock Exchange, a Pulitzer Prize-winning author and Academy Award nominee for *A Soldier's Story*, the drama critic for CBS, and the Chief of Staff at Massachusetts General Hospital have in common? You guessed it: a La Salle education.

La Salle graduates have distinguished themselves in the nation's best graduate schools, law schools, and medical schools. In recent years, graduates have won scholarships or assistantships to top-rated graduate schools, including Harvard, Cornell, Stanford, University of Chicago, and Virginia. La Salle men and women have earned law degrees from Berkeley, Catholic University, Cornell, Dickinson, Pennsylvania, Temple, and Villanova, to name but a sampling.



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An exciting moment in the always exciting atmosphere of the Palestra.



A quiet moment with the harpsichord in the art museum's Renaissance room.

Since 1977, according to a 1984 study, 99% of students who were highly recommended by La Salle were offered entry into medical schools, including Jefferson, Hahnemann, Temple, and Medical College of Pennsylvania. La Salle graduates have won 39 Fulbright Scholarships, a Marshall Scholarship, and four Rotary International Gundacker Fellowships for Study Abroad. Since 1965, each graduating class has averaged about 40 graduate and professional school fellowships, scholarships, and assistantships.

Many of these graduates participated in the exceptional Honors Program at La Salle. The *Newsletter* of the National Collegiate Honors Council described the program as "a very special sort not available to larger, general universities" and took note of a "really extraordinary record in terms of garnering Fulbright, Danforth, and Marshall scholarships."

Financial aid is a mysterious but necessary concern for most parents. Without it, most students could not attend college today. At La Salle approximately 85% of the students receive some form of financial aid. Here's something to keep in mind: since aid is calculated on a "needs" formula, a student attending a private college may actually be eligible for more aid than would be available if he or she were attending a public or community college with an apparently lower tuition.

Besides partaking of the Philadelphia cultural scene, La Salle also contributes to it in significant ways. Lita Solis-Cohen, Philadelphia *Inquirer* art and antiques columnist, has written that La Salle has "the finest college art gallery in the Philadelphia area" and that "one would have to go to Yale, Harvard, or Princeton to find a better one." The summer Music Theatre, a Philadelphia institution now, has launched many performers' careers, including actors Pat Cronin, Russell Lieb, and dancer Judith Jamison. Over the years, La Salle has welcomed to the campus as speakers a distinguished array of names, including John F. Kennedy, Alan Paton, Katherine Anne Porter, Ralph Ellison, Robert Penn Warren, and many others. La Salle and the University of Pennsylvania are the only two Philadelphia-area institutions to bring the Royal Shakespeare Company's Actors-in-Residence program to their students and the community.



*Hayman Hall  
physical facilities  
building seen from  
the Residence  
Halls complex.*



*College Hall Tower and the Lawrence Library,  
seen from Leonard Quad.*



*Belfield Farm, the latest addition to the  
campus, seen from College Hall.*



*New wing of the  
La Salle Union  
Building, seen  
from Olney Hall.*

Sports devotees generally think of basketball when they hear the name La Salle, and not without reason. La Salle is one of only nine teams to have won *both* the NCAA and NIT championships in men's basketball. But basketball is only part of the story. The women's field hockey team won a national title in 1980; its goalie, Diane Moyer, was a part of the 1984 Olympic championship team. Among other past Olympic participants from La Salle are gold medalist swimmer Joe Verdeur, long jumper Ira Davis, and javelin thrower Al Cantello.

Hayman Hall, one of the East's finer athletic facilities, features an Olympic-sized pool, basketball, squash and handball courts, an indoor track, an exercise room, and virtually anything else an athletically-minded student might want. Organized intercollegiate and intramural sports afford students opportunities to participate according to their interests, but there is plenty of unorganized, free recreation as well. There are men's varsity teams in basketball, baseball, swimming, track, cross country, crew, soccer, golf, rifle, tennis, and wrestling. Women's teams include basketball, crew, cross country, field hockey, volleyball, tennis, swimming, softball, and track. Intramural sports such as touch football, volleyball, basketball, softball, track, swimming, and water polo have men's, women's, and mixed teams.

For those with recreational tastes other than or in addition to athletics, the La Salle Union offers films, plays, and concerts in its theater, social events in the ballroom, or a meal or a snack in one of its three dining rooms. Trained administrators in Student Affairs work closely with students and their organizations, sharing ideas and helping students to plan and carry out social and cocurricular activities. They recognize that social life is a vital part of your educational experience at the University, and they will work with you to help you get the most out of your student activities.

Our profile of La Salle is incomplete, but our space and your time are both limited. The Admissions Office cordially invites you to pay us a visit and fill out the rest of the profile through personal experience. Telephone (215) 951-1500 to arrange an appointment.



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# The People of La Salle

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More than buildings, more than books, more than lectures and examinations, education is a matter of people. It is the people who make up La Salle—the students, teachers, and administrators—who give the community its character.

St. La Salle's dedication to teaching is the informing spirit of the University, and you will be conscious of this spirit in the willingness of your professors to give that extra moment of explanation or advice which can mean so much. While many of these men and women are engaged in their own scholarship or research, their primary focus is always the classroom and their basic obligation is to you, the student.

Making the transition between high school and college is never easy, but at La Salle you will find many people who want to help and who understand some of the problems you face perhaps better than you do yourself.

During the summer months preceding the start of classes you and your parents will be invited to participate in the Pre-College Counseling Program. At this time you will come to the campus for a full day of conferences with the Counseling Center staff, as well as representatives from Financial Aid, Resident Life, Placement and other areas of the University. During the program you will have a personal interview with a counselor to discuss your educational and career plans and will meet with an academic adviser who will assist you with your fall roster. In an informal atmosphere of small group discussions, you will also have the opportunity of sharing your ideas with other freshmen, with upperclassmen who have experienced the same transition, and with faculty members and administrators anxious to be of help. The overall aim of the summer program is to make your adjustment to college life as pleasant as possible.

In addition to this initial counseling program, the Counseling Center offers continued diagnostic and counseling services throughout your college years. If you are uncertain of your major or of your career plans, the staff is happy to assist you in making a sound choice based on your interests and capabilities. *Sigi-Plus*, a computer-assisted career exploration tool which helps students examine their values, interests, and skills systematically, is available for this purpose. The center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools, drugs and alcohol, selective service and a variety of occupations. Besides offering individual counseling, the Center also conducts group sessions on a variety of topics of concern to students. Management of anxiety—particularly test anxiety—assertiveness training, overcoming shyness, self-esteem enhancement, improvement of study skills, and procrastination reduction are but a few of the topics that have been the focus of recent group programs. The sessions have proven popular and effective ways of aiding personal growth.

Being part of a church-related college means you are also part of a community in which people care about one another. The Campus Ministry Center plays an important role in maintaining that sense of community by stimulating student participation in planning and celebrating the liturgy, by encouraging Christian commitment to social action, and by generally making you more aware of what it means to care for God, yourself, and others.

One of the ways students may exercise their commitment to social action is through the Student Community Service Program. This program, a project of the Urban Studies Center, provides opportunities for student volunteers to use their talents and interests in serving the local community. Volunteers tutor youngsters, work with Philadelphia's homeless, and assist senior citizens with tax problems, to cite only a few examples. In working with people from diverse backgrounds, you may develop increased understanding of your own values, goals, and responsibilities. Like many student volunteers, you may find that the work has contributed to La Salle's aim of producing "graduates . . . ready for informed service and progressive leadership in their communities . . .".

Nor is your physical well-being neglected while you are on campus. A physician is always on call, and a registered nurse is in daily attendance in the dispensary. Medical insurance is available and recommended to all students.

Throughout your college days, the Director of the Career Planning and Placement Bureau will be at your service to help you select a career and assist you in planning job campaigns. This office is sometimes able to assist students in finding part-time or summer jobs related to their career goals.

All in all, you will find the people at La Salle an important part of your education. Long after you have forgotten painfully memorized facts from a textbook or lecture, you will remember the teachers and students with whom you associated in your college years.



# Living at La Salle

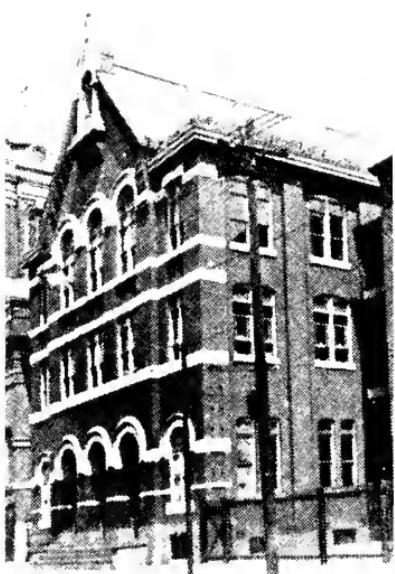
When you become part of the community of resident students, you will have greater opportunity for participation in the total collegiate experience. Extracurricular campus life and student activities abound for residents, who also benefit greatly from the convenience and access to academic facilities, student services, and co-curricular programs.

The community of residents is diverse, reflecting the range of backgrounds, personalities, and interests of La Salle's student body. Each floor and building takes on a character of its own, and the give-and-take of daily life in the dorms promotes respect and concern for others, good citizenship, and responsible behavior. The halls contain a mixed group of students ranging from freshmen to seniors and are small enough to encourage a spirit of friendship on the floors.

The Resident Life Staff and the student-run Residence Council sponsor socials, movies, coffee houses, guest speakers, trips, special events (Octoberfest, Spring Fling) and recreational activities. Many University clubs and organizations also sponsor a variety of activities in the residence halls and apartments. When combined with the wealth of cultural, historic, entertainment, sports and educational resources available in the city of Philadelphia, residence life affords students the best combination of a collegiate and metropolitan environment.

Life in a university residence hall is a unique experience not to be duplicated elsewhere. Living with friends—studying, dining, socializing together—provides you with chances to learn about yourself, refine your ability to get along with and learn from others, and formulate goals and values which are critical for personal success after graduation. At La Salle, many things—staff, students, facilities, programs and location—blend to offer residents a convenient, meaningful, and rewarding living experience.





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*The modern lines of the Holroyd Science Center contrasted here with St. Michael's School, the original home of La Salle in 1863.*



*Architect's rendering of the new library, expected to be ready for occupancy in September, 1988.*

# Our History

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La Salle University was chartered as La Salle College by the Commonwealth of Pennsylvania in 1863. Its founders were a group of Christian Brothers, some diocesan priests, and several Catholic laymen. It was located at St. Michael's, one of the oldest parishes in Philadelphia. As the new college grew, it moved first to a center city site at Juniper and Filbert Streets and then to the old Bouvier mansion at 1240 North Broad Street.

La Salle moved to its present location at 20th Street and Olney Avenue in 1929, purchasing part of historic Belfield Farm, once the home of American painter Charles Willson Peale. No sooner had work begun on the collegiate Gothic towers of College Hall than the country plunged into the greatest depression it has ever known. Somehow La Salle College survived the financial doldrums of the 1930's only to be faced by the greater threat posed by the depletion of the all-male student body during World War II. At its lowest enrollment the College had only 90 students.

After the war's end, a tremendous influx of veterans created an entirely new challenge of overcrowding. La Salle began an era of expansion that has continued to the present day. In 1970 La Salle ended its century-old tradition as an all-male institution and accepted its first women students. Today women make up 45% of the day school enrollment.

Building and expansion has continued at a rapid pace ever since 1946. A significant resident population of 1250 students is housed on campus. The most recent additions to the buildings on campus include a new wing of the La Salle Union and a 350-bed residence hall and dining room facility. The acquisition of the farm at Belfield in 1984 added significantly to the campus, not only in acreage but also in beauty and historical tradition. A magnificent new library is under construction and will be open in 1988.

The physical growth on campus has been matched by the vitality and innovation of academic and student affairs programs. The curriculum has been revised after a careful faculty study. New majors have been added in Computer Science, Communication Arts, and Public Administration, and new minors have been developed in health care administration, international studies, work psychology, urban studies and women's studies. A special honors concentration in business was introduced. Financial aid to students has increased dramatically, as have the activities and services of the Student Affairs area.

In recognition of the growth and diversity of La Salle and the strength of its educational offerings, the Governor of the Commonwealth of Pennsylvania bestowed the status of university on La Salle in 1984, making one of the state's oldest colleges its newest university. Thus a new chapter in the history of La Salle has begun.



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(Above) Brother Daniel Burke and Jean Haley, Director of Library Services, served on the planning committee for the new library. (Below) The building moves from plan to reality in 1987.

# Our Aims and Traditions

Though often mistakenly connected with the French explorer, the name of the University commemorates the 17th-century French educator and founder of the Christian Brothers, John Baptist de La Salle. The traditions of this saintly, innovative educator have been continued by the Brothers, a non-clerical order of religious who have been teaching in the United States since 1845. Under the auspices of the Brothers, the University strives to continue such La Sallian traditions as devotion to excellence in teaching, concern for ultimate values and for the individual values of its students.

In the light of these traditions, La Salle offers students an education founded on the idea that man's intellectual and spiritual development go hand in hand, complementing and fulfilling one another. The basic purpose of the University is a free search for truth and the development of materials and skills necessary for the search; its religious concern is an extension of that purpose. In a company of mature teachers and scholars, the University urges the student to confront the ultimate questions of human experience: who he is; where his destiny lies; how he is to reach it.

La Salle is committed to a liberal education of both general and specialized studies. It wants its students to liberate themselves from narrow interests and prejudices and to learn to observe reality with precision, judge events and opinions critically, think logically, communicate effectively, and sharpen esthetic perception. The curriculum involves a body of knowledge about the universe; about man—his nature, behavior, and values; about God. It also provides an opportunity to gain specialized knowledge in one field of learning as a preparation for graduate study or entry into professional life. Beyond this breadth and depth of knowledge, the University encourages its students to seek wisdom, that is, to grasp those basic principles which can give order to particular facts.

Although undergraduate education remains its primary purpose, La Salle also offers Master's programs in selected areas of specialization. For the most part, these programs focus on professional goals through advanced study and through application of theoretical knowledge in the fields represented.

As a private Catholic university, La Salle pursues these aims in a religiously diverse community of teachers and students interested in studying secular subjects in their autonomy, undertaking religious studies in a systematic way, and investigating what interrelations these subjects may have. The community also engages in programs in which the students, personal, social, and religious values may take root and in which the students may grow in mature attitudes and behavior in all human relationships. The ultimate hope of the University is that its graduates will be ready for informed service and progressive leadership in their communities and will be able to fulfill the immediate and final goals of their lives.

# General Reference

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# Admissions

If a student is well-motivated toward a college career and can show evidence of academic achievement and ability, the Admissions Committee will welcome an application. In arriving at its decision, the Committee studies the high school record, test scores, and the recommendations from high school faculty, guidance counselor, and principal. Each applicant is given personal consideration. La Salle does not discriminate against any applicant for admission because of race, color, creed, sex, national origin or physical handicap. Admission is based solely upon an applicant's qualification and ability to meet the established admission requirements.

## APPLYING FOR ADMISSION

The Committee on Admissions will consider a qualified applicant for acceptance any time after completion of the junior year. The following credentials are required for evaluation:

1. A completed application to La Salle University.
2. A transcript of three-year high school scholastic and personality records.
3. The results of the College Board Scholastic Aptitude Test or of the American College Testing Program.

The successful applicant must graduate from high school with creditable grades.

An interested student is encouraged to arrange for a campus visit, which might include a personal interview and tour. Phone 215-951-1500.

In exceptional cases, students may be admitted after completion of the junior year on the recommendation of their high school counselor and evidence of superior achievement.

Applicants may secure application materials from the Office of Admissions. These materials include a form which is to be mailed directly to the University by the high school. Completed applications and the \$20.00 application fee should be sent to the Office of Admissions. The Director of Admissions will notify applicants as soon as possible after a decision has been made. If accepted, a student is asked to forward a \$100.00 deposit, usually within three months of acceptance. This deposit will be applied to first semester expenses; the entire deposit is forfeited if an applicant chooses not to attend La Salle.

## ADMISSION REQUIREMENTS

### HIGH SCHOOL UNITS

Your record should show successful completion of at least 16 units of high school work including the following:

English	4 units
Mathematics:	
Algebra & Plane Geometry or two years of Algebra	2 units
History	1 unit
Natural Science	1 unit
Foreign Language	<u>2 units</u>
	10 units

The remaining six units may be distributed as follows:

1. Applicants for the *Liberal Arts* program may present six other units in academic subjects.

2. Applicants for the *Science, Mathematics or Computer Science* programs may present six other units in academic subjects but including an additional one and one-half units in mathematics.
3. Applicants for the *School of Business Administration* may present six academic or commercial units, excluding typing.

#### LANGUAGE REQUIREMENTS

All applicants should present two units in the same foreign language.

#### ENTRANCE EXAMINATIONS

Applicants to the freshman class are required to take either the American College Testing Program or the Scholastic Aptitude Tests given by the College Entrance Examination Board. These tests should be taken no later than January (SAT) or February (ACT) of the senior year. Arrangements may be made through your high school counselor or by writing, six weeks before the test date, to either:

CEEB—	The Educational Testing Service Box 592, Princeton, NJ 08540 or Box 1025, Berkeley, Calif. 94701
OR	The American College Testing Program
ACT—	Box 451  Iowa City, Iowa 52240

La Salle College's identification number: CEEB-2363; ACT-3608

#### ACHIEVEMENT TESTS

The CEEB Achievement Tests are not required. These tests are helpful to departmental advisers, however, in determining placement in certain English, mathematics, and foreign language courses. They are recommended, therefore, to students who:

1. wish to apply for a waiver of the freshman composition requirement;
2. desire immediate placement in a calculus course;
3. plan to continue study of a language in college after having completed at least two years of that language in high school.

#### MEDICAL RECORDS

All accepted students are required to have a report of medical history on file in the Dispensary prior to their attendance at the University.

#### FOREIGN STUDENT ADMISSIONS

La Salle University is authorized by the Department of Justice, Immigration and Naturalization Service to issue Certificates of Eligibility (Form I-20) for non-immigrant "F-1" student status, to foreign students who meet admissions requirements. Preliminary application materials are available from the Coordinator of Foreign Admissions, La Salle University, Philadelphia, PA 19141.

#### ADVANCED PLACEMENT

La Salle University participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the University agrees to give credit and/or advanced placement to students who perform satisfactorily both in college-level courses

taken in secondary school and in the advanced placement examinations administered by the Board. The equivalents for the grading scale are:

- 5 or 4 = Advanced credit and advanced placement
- 3 = Same, on recommendation of departmental head
- 2 = Advanced placement only on recommendation
- 1 = No advanced placement or advanced credit.

La Salle University also participates in the College-Level Examination Program of the College Entrance Examination Board. Students who wish to be considered for advanced credit through this program should write for information to the College-Level Examination Program, Educational Testing Service, Box 977, Princeton, NJ 08540.

### TRANSFER STUDENTS

La Salle University welcomes qualified transfer students to the fall and spring terms and to the Summer Sessions. Candidates for admission from colleges which offer courses of study similar to those of La Salle University should submit transcripts of their college records as soon after applying for admission as is possible. All except A.A. and A.S. degree holders are required to submit their high school transcripts also. Transfer students should submit the results of College Entrance Examination Board tests or of the American College Testing Program, if available. A letter of appraisal from the Dean of Students of the college or university attended is requested in most cases.

All of these records should be in the Admissions Office at least 30 days before the beginning of the semester for which the student is applying. This interval is suggested to provide ample time to process the application, to evaluate transcripts, and to arrange a pre-registration interview.

The previous college record of the applicant must indicate good academic standing. Students applying for transfer from a fully accredited college or university will be considered for admission if their grade point average is 2.25 (on a 4.00 scale), but a 2.50 or higher is preferred. Transfer applicants from colleges which have applied for regional accreditation will be considered if their grade point average is 2.75 or higher (on a 4.00 scale). The decision on each application is based mainly on the grade point average earned at the college or university the student attended before applying to La Salle.

Credit will be allowed for courses completed with grades above the lowest passing grade given at the institution from which the applicant is transferring. Normally, 70 credits may be accepted for transfer.

Transfer students may be required to make up certain courses which belong to the sequence required in the program of studies for which they are applying.

Interested prospective students should direct their inquiries to the Assistant Director of Admissions for Transfer Students.

### ACADEMIC DISCOVERY PROGRAM (ADP)

The Academic Discovery Program (Pennsylvania ACT 101) is a special program which provides free counseling and tutorial support services for students whose records indicate that they could benefit from extra academic assistance and who also meet certain criteria of financial need. The ADP helps students establish good study habits, clear career goals, and the ability to compete successfully in the academic setting. Members of the ADP participate in a free pre-college summer program before their freshman year and in assigned counseling and tutorial sessions along with their regular courses during the academic year. As much as possible, each student's program is tailored to his or her individual needs. To obtain application materials, write or call the Day Admissions Office, 215-951-1500. For further information regarding ADP or the Community Academic Opportunity Program Grant, call the Academic Discovery Program Office, 215-951-1084.

## ADMISSIONS FOR VETERANS

All veterans coming directly from the service with proof of a high school diploma or its equivalent are eligible to enroll as students at La Salle University. For answers to specific questions, veterans may telephone the Registrar's Office, 215-951-1020.

## CONTINUING EDUCATION FOR WOMEN

The Continuing Education for Women (CEW) program at La Salle is designed to ease the transition for adult women who wish to begin or resume their college education. Women may enter this program in the Day or Evening Division whether they are interested in taking single courses or pursuing a degree. Any woman 24 years or older who has a high school diploma or equivalent is eligible to apply. The program includes academic advising, an orientation day, study skills workshops, support groups, individual counseling, referral to campus day care facilities, and special get-togethers for CEW students. CEW encourages potential students to have an interview with a staff counselor to discuss questions she may have about her educational and career goals, and to clarify information about La Salle courses and schedules. To arrange an interview or to apply for admission through the program, visit the CEW office, located on the first floor of College Hall or telephone 215-951-1060.

## BUILDING BLOCKS: CHILD DEVELOPMENT CENTER

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Established in 1973 by a group of La Salle faculty, students and staff, Building Blocks is a privately incorporated day care center housed on La Salle's campus. Serving the immediate La Salle community and our neighbors beyond the campus, the center cares for some 50 children whose ages range from 18 months to 6 years. The trained professionals at Building Blocks also supervise work study students, volunteers, and students who fulfill certain course assignments through projects at the center. Interested parents should telephone the Director at 951-1573.

## ACCOMMODATIONS FOR RESIDENTS

The residence facilities accommodate approximately 1200 students and consist of 10 coeducational halls and two apartment complexes. The dormitory-style residence halls contain single and double rooms which share one bathroom on each floor of men or women. Quad rooms in St. Katherine Hall consist of adjoining double rooms which share a bathroom. One- or two-bedroom garden apartments are available to upper division students.

An application for housing and the required security deposit should be submitted when confirming acceptance. The Resident Life Office will then inform the student of the application's status. If a space is reserved, and the student decides after July 15 not to live on campus, the entire security deposit is forfeited.

The residence halls provide complete living, learning, and recreation facilities. Each room is completely furnished except for bed linens. There are lounges, quiet study areas, recreation areas, and coin-operated laundries. The Campus Store is a convenient shopping center for books, stationery, and personal supplies. Residents are permitted to have cars on campus. Detailed information on resident life and facilities can be found in *You've Got a Lot to Live: The Resident Student Survival Guide*, published by the Resident Life Office.

The resident life administration is headed by a professionally trained staff. A Resident Assistant resides in each living unit and acts as a paraprofessional counselor, referral agent, administrator, and activity programmer. The graduate and undergraduate staff receive room and board compensation and are an outgoing and diversified group who

are interested in working with students to make college life in residence an enjoyable and educational experience.

Both the residence and dining facilities are closed during the Thanksgiving, Christmas and Spring recesses.

For further information about resident life, contact the Resident Life Office, North Halls Complex, Telephone 215-951-1550.

### **THE LIBRARY**

The David Leo Lawrence Library houses a collection carefully developed to meet the academic and research needs of La Salle's faculty, students, and staff. Current holdings include over 305,000 bound volumes, current subscriptions to 1,318 periodicals, and over 40,000 microform pieces. Through its participation in various regional and national networks, the library augments its collection by providing interlibrary loan service to and from other libraries throughout the country. Library Service is also enhanced through the use of the latest information technology. The Reference Department offers computerized literature searching of over 200 electronic databases, cataloging is streamlined through access to a shared bibliographic database, and plans are underway for the installation of a fully automated catalog of the library's holdings.

La Salle's professional librarians strive to provide not only the most efficient and comprehensible organization of the library's holdings but also to instruct students in its use. Bibliographic instruction is offered as part of regularly scheduled classes and on an individual basis. Students requiring assistance with term papers and other academic projects can avail themselves of this service. Instruction in computer-assisted search techniques is available.

An entirely new library is presently under construction, with completion scheduled for March, 1988. Over twice the size of the present library, the new building will significantly increase seating and stack space as well as provide the latest in electronic information sources.

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### **FOOD SERVICES**

The Food Services Department offers a variety of nutritious items in the two cafeterias it operates on campus. At La Salle a residence hall student may select from one of the three a la carte meal plans available. The a la carte plan is probably unlike other university food service plans that you are familiar with. Instead of offering a specified number of meals to be eaten within a week, the a la carte meal plan allocates a weekly dollar credit to each participant. You use this credit to purchase menu items during breakfast, lunch or dinner. Each plan provides you with a balance that can be used throughout the entire credit week. Choice of a meal plan is usually based upon your eating habits as well as the number of days per week you anticipate eating on campus.

The most recent innovation in Food Services is a contemporary dining area called *Intermissions* and an adjoining entertainment room known as *Backstage*. In these comfortable settings you can unwind and exchange ideas and enjoy the entertainment until the late hours. *Intermissions* serves lunch daily, and both rooms are open in the evening for late night snacks and entertainment.

### **OFF-CAMPUS HOUSING**

In order to assist members of La Salle in locating available housing in the surrounding community, help is available through the Off-Campus Housing Service. The Service provides: off-campus housing referral listings; roommate referral lists; general off-campus rental information (tenant-landlord relations, roommate selection, consumer protection, neighborhood business and services, etc.).

La Salle University does not inspect available accommodations or screen prospective landlords and tenants. Any questions pertaining to off-campus housing should be directed to Off-Campus Housing, Resident Life Office, North Halls Complex, Telephone (215) 951-1550.

### COURSE SELECTION

All accepted students will receive a course selection form in the mail in early April. At this time they may indicate their choice of courses for both the fall and spring terms. Additional academic counseling is available to freshmen during the Pre-College Counseling Program in the summer.

### STUDENT HEALTH SERVICES

The La Salle University Dispensary provides medical diagnosis and treatment of minor illnesses and injuries and is available to the student body for initial care, first aid, and health information. Located in the North Complex of the Residence Halls on Olney Avenue, directly across from Hayman Hall, it is open Monday through Friday. The Dispensary is staffed by a registered nurse who serves as the Director. University physicians see students in the Staff Clinic of Germantown Hospital five days a week and a physician is available in the Dispensary weekly. The Clinic is located on the first floor of the hospital and referrals to the clinic are made by the nurse from the Dispensary. All students are required to complete the Student Health Services-Health Questionnaire prior to their attendance at the University.

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Both medical and dental emergency services have been arranged with local hospitals, and a complete list of private physicians of every medical speciality is also available. Students are responsible for the costs of these treatments.

Health insurance is strongly advised for all students, especially those in residence, and is required for all international students. Students who are under 23 years of age generally can be covered under their own family Blue Cross (Hospital Insurance) and Blue Shield (Medical-Surgical Insurance) program while enrolled as full-time college students. Information concerning special Students' Blue Cross and Blue Shield plans for those not covered by family plans is available.



# Expenses

	Per Semester
Basic tuition .....	\$3,350.00
Additional for science majors (biology, chemistry, physics, geology) .....	83.00
Tuition—for courses taken in excess of or less than a normal schedule—per semester hour .....	240.00
Science Laboratory Fee—charged non-science majors electing to roster certain designated science courses—per course .....	45.00
Communications Fee—charged for certain designated courses—per course .....	45.00
Computer Fee—charged for designated computer science courses—per course .....	30.00
Counseling and Orientation Fee—charged to entering students in their first semester only .....	50.00
Administrative Fee—charged to students who elect to receive credit through authorized standardized testing procedures or approved in-house tests—per course .....	45.00
Registration fee .....	25.00
Housing Cost (per student)	
Residence Halls	
Triple Room Rent .....	790.00
Double Room Rent .....	975.00
Single Room Rent .....	1,125.00
Quad Room Rent .....	1,050.00
Residence Hall Orientation Fee—charged in first semester only .....	25.00
Apartment Rent .....	1,125.00
Meal Plans	
Plan A—allows approximately \$7.00 per day .....	695.00
Plan B—allows approximately \$9.00 per day .....	845.00
Plan C—allows approximately \$11.00 per day .....	\$1,045.00

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<sup>1</sup> Students living in the residence halls are required to participate in one of the meal plans. The housing contract is a commitment for both Fall and Spring semesters.

In view of rising costs, La Salle University must reserve the right to amend or add to the charges at any time and to make such changes applicable to students presently enrolled as well as to new students.

## DEFERRED PAYMENT

If you do not have the entire amount you need to register for the Fall or Spring semester, you can choose the Deferred Payment Plan, which allows you to spread out your payments in three monthly installments throughout the semester. For a \$15.00 application fee and a small finance charge, you can defer payment on as much as 75% of your educational expenses (or as little as \$250.00, if that's all you need.) To find out more information or to obtain your application, contact the Student Loan Office on the Lower Level of College Hall. (951-1054).

## MONTHLY PAYMENT PLAN

In cooperation with Academic Management Services, La Salle offers a monthly payment plan designed to relieve the pressure of "lump-sum" payments each semester. This plan allows you to spread the cost over a period of months without borrowing money or paying interest charges. Automatic life insurance is provided at no charge. The enrollment fee is \$40 a year for each enrolled student; there are no other charges. There is no down payment if you enroll in the plan *before April 25*. Please contact the Bursar's Office if you would like to receive an explanatory brochure and application.

## SEMESTER INVOICES

Full payment of semester invoices is due in mid-August for the fall term and in

mid-December for the spring term. Students who have not paid in full within the prescribed time are not registered nor are they included on official class lists. MasterCard and VISA may be used for payment of invoices.

#### GRADUATION FEE

A graduation fee of \$40.00 is due and payable in the spring semester in which the degree will be awarded. The University cannot be responsible for the inclusion in the graduation program of any candidate who pays fees after the deadline set at the billing date. The graduation fee covers the Graduate-Faculty Reception, baccalaureate services, the cost of the diploma, the use of cap and gown, and all other expenses incidental to the commencement exercises. No candidate may be recommended for a degree, diploma, or certificate until the graduation fee and all other financial obligations have been paid.

#### REFUND OF TUITION

Under certain circumstances, students who withdraw may receive a partial refund of tuition. There are no exceptions to the following terms and conditions.

##### *Fall and Spring Undergraduate Semesters*

<i>Time of Withdrawal</i>	<i>Refund</i>
Before first day of class . . . . .	100%
During first week . . . . .	80
During second week . . . . .	60
During third week . . . . .	40
During fourth week . . . . .	20
After fourth week . . . . .	None

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For the purpose of refund, the student shall be considered to be in continuous attendance up to and including the date of submission of proper notice of withdrawal. The notice of withdrawal must be addressed to the Dean of the particular school. Ceasing to attend or giving notice to an instructor does not constitute proper notice. The allowed percentage of refund shall be based upon the official withdrawal date which shall be determined by the date the notice of withdrawal is received by the Dean, or the postmark, if mailed.

For the purpose of refund computation, a week shall be defined as the period of seven successive days beginning with the official University opening of classes and NOT the first day in actual attendance by a particular student.

In those instances where a student's educational expenses were satisfied in whole or in part by Title IV Program Funds, and a refund of these educational expenses is authorized, that refund will be proportioned in accordance with U.S. Department of Education regulations governing refunds and cash disbursements made directly to students. Under those regulations, priority is given to the return of funds to Title IV Assistance Programs in the following order: State Grant Programs, SEOG, NDSL, Pell Grants, Guaranteed Student Loans. Students should be aware that the regulations may prevent the refund of any personal funds used for payment of tuition and fees. In instances where a student has received a cash disbursement prior to the recording of his or her withdrawal, the student may be required to return those funds to the University.

#### ROOM AND BOARD REFUND POLICY

##### *Meal Plan*

If a student leaves the Residence Halls, a pro-rata refund will be made for the unused portion of his or her meal plan upon return of the meal card to the Food Service.

##### *Room Rent*

Regardless of the reason for vacating, refunds will not be made for unused room rent.

# Financial Aid

Since the primary responsibility for college expenses rests with parents and student, financial assistance is normally granted on the basis of financial need together with demonstrated and potential academic achievement. The information below lists sources of aid available to students attending La Salle and the method of application.

## CHRISTIAN BROTHERS' SCHOLARSHIPS

La Salle University offers fifteen full tuition scholarships to students graduating from all Catholic high schools in the Philadelphia and Camden dioceses and from high schools conducted by the Christian Brothers of the Baltimore Province. Selection is based on academic excellence and potential for leadership in the La Salle community. Applications are restricted to students nominated by their high school principal. Scholarship application forms will be sent directly to nominees designated by the principals. All completed scholarship materials must be received by the appropriate office at La Salle no later than February 1.

## COMPETITIVE SCHOLARSHIPS

Twenty-seven scholarships providing full tuition are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. This scholarship competition is open to high school seniors who have scored approximately 1300 in the College Board Scholastic Aptitude Test and who have a class rank in the top 10 or top 10% of the high school graduating class. Application materials may be obtained by contacting the Director of the Honors Program. The completed scholarship materials must be received by the appropriate office at La Salle no later than February 1.

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## NATIONAL MERIT GRANTS AND SCHOLARSHIPS

Students selected as National Merit finalists, semi-finalists, and letter of commendation recipients are eligible for grants through the University. Finalists qualify for \$800 per academic year, semi-finalists receive \$600 per academic year and commendation recipients are granted \$300 per year. These grants are applicable to tuition charges and are renewed yearly pending completion of the Pennsylvania State Grant and Federal Student Aid Application.

La Salle University offers two National Merit Scholarships annually ranging from \$300 to \$2000 per academic year. Students are selected by National Merit Scholarship Corporation from those qualifying in the College Boards and indicating La Salle University as the first choice institution. Nominees should complete the application for Pennsylvania State Grant and Federal Student Aid.

## CHRISTIAN BROTHERS GRANT

La Salle University offers grant assistance to students having an established financial need as determined through a needs analysis system, e.g. either the PHEAA or FAF application. These grants can be renewed pending a yearly review of the student's financial need.

## ATHLETIC GRANTS

La Salle University offers grants to men and women excelling in athletics. Contact with the La Salle University Athletic Department is made by the student's high school coach. These grants can be maintained through the four years of study at La Salle University.

## **COMMUNITY ACADEMIC OPPORTUNITY PROGRAM (CAOP)**

The Community Academic Opportunity Program is a grant available to students who have been accepted into the Academic Discovery Program. It is designed to give financial assistance to economically and educationally disadvantaged minority students from the surrounding neighborhoods; specifically, a student must reside in zip code areas 19119, 19120, 19126, 19138, 19141, 19144 or 19150.

The amount of the grant will be equal to the difference between the total of tuition and fees minus all gift aid which the student is eligible to receive; i.e., Pell and PHEAA grants as well as private aid. In addition, the student will receive up to \$300 per academic year for books and supplies.

### **PELL GRANTS**

The Pell program is a federally administered program available to needy students taking no fewer than six credits per term. Students may receive from \$200 to \$2300 per academic year. Applications are available from your high school guidance counselor or the La Salle Financial Aid Office. Eligibility is determined by the federal government and notification is sent directly to students. In addition to financial need, a student must make normal progress toward a degree to retain eligibility.

### **PENNSYLVANIA HIGHER EDUCATION GRANTS (PHEAA) AND OTHER STATE GRANT PROGRAMS**

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Pennsylvania state grants are administered by Pennsylvania Higher Education Assistance Agency and range from \$100 to \$1750. Eligible students must demonstrate financial need, maintain Pennsylvania residency, be enrolled on a full-time basis, and complete a minimum of twenty-four credits per year. Applications are available from high school guidance counselors or the Financial Aid Office.

Other states in addition to Pennsylvania have scholarship programs for their residents. Information and applications would be available from the respective State Boards of Education.

### **PERKINS NATIONAL DIRECT STUDENT LOANS**

The NDSL provides needy students with long-term, low interest loans for educational expenses. The University determines the amount of the loan to be offered within certain federal guidelines. Interest at the rate of 5% per year on the unpaid balance begins to accrue after the student ceases at least half-time study. The loan repayment period may be as long as ten years, depending upon the total amount borrowed. Students must make normal progress toward a degree to maintain eligibility. La Salle University requires submission of the application for Pennsylvania State Grant and Federal Student Aid to determine eligibility.

### **COLLEGE WORK STUDY PROGRAM**

The College Work Study program provides needy students with access to part-time jobs in both on- and off-campus locations. The funds earned do not provide direct tuition relief, but are intended to help meet incidental expenses encountered by students. Students are paid on a weekly basis for the number of hours worked. The total amount that may be earned through the work program is determined by students' needs and availability of funds at the University. Employment is limited to an average of twenty hours per week while school is in session. La Salle University requires submission of the application for Pennsylvania State Grant and Federal Student Aid for eligibility evaluation. In addition to demonstrating need, students must make normal progress toward a degree to maintain eligibility.

## **SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG)**

The SEOG program is a federally funded college administered program available to needy students in amounts up to \$2000 per academic year. La Salle University requires submission of the application for Pennsylvania State Grant and Federal Student Aid for eligibility evaluation. In addition to financial need, students must make normal progress toward a degree to retain eligibility.

## **GUARANTEED STUDENT LOAN (GSL)**

This loan program is administered by state and private agencies with the assistance of participating lending institutions. Students enrolled on at least a half-time basis and making normal progress toward a degree may apply to this program. The yearly limits are: \$2625/year for the student's freshman and sophomore years and \$4000/year for the junior and senior years. The current interest rate is 8%. Repayment begins six months after the student ceases half-time enrollment.

## **PARENT LOANS FOR UNDERGRADUATE STUDENTS (PLUS)**

This program allows parents to borrow a maximum of \$4000 an academic year for each dependent undergraduate student. The interest rate is 12% and repayment begins within 60 days after the disbursement of funds. Independent undergraduate students may also borrow from the PLUS program. However, these students may not borrow more than a combined total of \$4000 from both the PLUS and Guaranteed Student Loan programs. Contact your local banks regarding program participation.

## **ARMY ROTC SCHOLARSHIPS**

Army ROTC scholarships are offered for four, three, and two years. The four-year scholarships are awarded on a worldwide competitive basis to U.S. citizens who will be entering college as freshmen. The three- and two-year scholarships are awarded competitively to students who are enrolled or are eligible for advanced placement in ROTC, including those who are cross-enrolled.

Students who attend the Basic Camp of the two-year program may also compete for two-year scholarships.

The scholarships pay for tuition, textbooks, lab fees, and provide a living allowance of up to \$1000 each year the scholarship is in effect. The value of the scholarship depends on the tuition and other educational costs of the university or college attended.

Contact the Department of Military Science, 215-951-1365/1366, for further information.

## **PRIVATE SCHOLARSHIPS**

There are many special assistance programs that offer scholarships, grants, and loans to students. You may qualify for one of these programs through religious affiliation, ethnic heritage, parents' employers, organizational memberships, or a special talent. Programs through state and/or federal agencies—e.g., Veterans' Bureau, Bureau of Vocation Rehabilitation and Social Security Bureau—may also offer financial aid to qualified students. Knowledge of these programs is available through books and pamphlets on scholarships and financial aid in your school or local library or in the Financial Aid Office.

Information on private scholarships frequently received by La Salle students may be obtained from the following sources:

Berger-Wallace Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

James J. Binns Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

John F. Byrne Memorial Scholarship Award, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

Lt John H. Condon Memorial Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

Bishop Corrigan Memorial Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

Robert L. Dean Witing Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

Michael A. DeAngelis Memorial Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

Anna H. and Henry J. Donaghy Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

John and Kamila Feltowicz Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

Hero Scholarship, City of Philadelphia, Room 490, City Hall, Philadelphia, PA 19107

LSC Alumni Scholarship, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Lindback Scholarship, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Merrill Trust Fund, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

Philadelphia City Scholarship Program, 516 City Hall Annex, Philadelphia, PA 19107

J. Wood Platt Caddie Scholarship, c/o Cecil J. Barnett, Esq., 20 Bala Avenue, Bala-Cynwyd, PA 19004

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Joseph Lawrence Scheifer Memorial Fund, Director of Financial Aid, La Salle University, Philadelphia, PA 19141

W. W. Smith Charitable Trust Scholarship, Director of Financial Aid,  
La Salle University, Philadelphia, PA 19141

Air Force ROTC Scholarships, AFROTC Det 750, St. Joseph's University, Philadelphia, PA 19131

## **APPLICATION PROCEDURES FOR FINANCIAL ASSISTANCE**

Incoming students who are residents of Pennsylvania and all returning students regardless of state residency must file the Pennsylvania State Grant and Federal Student Aid (PHEAA) Application. Incoming students who are residents of the states other than Pennsylvania must complete either the PHEAA application or the College Scholarship Service Financial Aid Form (FAF). An Institutional Aid Application must also be submitted directly to the Financial Aid Office. Incoming students may obtain this form from the Admissions Office. Returning students will receive the form in the mail sometime in December. The deadline for receipt of these forms is February 15 for new students. All applications for renewal consideration must be received by March 15.

La Salle University's financial aid programs are organized to help the able student who needs financial assistance. As long as there is continuing evidence of academic progress as well as financial need, the University will make every effort to assist the student.

# Academic Programs and Procedures

## REGISTRATION

During an announced pre-registration period in the spring term, students meet with their chairman or adviser to plan a roster of courses for the upcoming year. On the basis of this pre-registration, the Registrar's Office publishes a Master Roster listing courses, times scheduled, and teachers assigned. The student then chooses a course section, time, and teacher. The Business Office will bill the student in August and December for the courses chosen, completing the registration process.

Students who have not completed mail registration will register on campus during the week before classes begin.

If students cannot register during this period because of circumstances beyond their control, they may complete registration during the first two days of classes.

Late registration is permitted only in the most unusual circumstances and requires the permission of the dean of the school and the payment of a fee of \$10.00.

## PROGRAM OF STUDIES

The program of studies prescribed by the student's adviser and approved by the dean of the school in which the student is enrolled is his or her official roster of courses.

It is the student's responsibility to see that all the requirements of this program are fulfilled. He or she should have in writing from the dean any exceptions to the prescribed program which may be granted.

Students may be permitted to change from one program to another, or from one area of instruction to another, only when their previous record indicates that they may profit by such a change. In any change of this type the student must have the written permission of the chairman and the dean of the school. This change may entail taking approved summer courses or an additional semester in college. In no case may students who transfer receive promotion or a degree sooner than they would have received it had they not transferred. No degree may be received less than one year after change of curriculum.

## CLASSIFICATION OF STUDENTS

A full-time student carries a *minimum* of twelve semester credit hours; many carry an average of fifteen semester credit hours. A student's program may require more hours per week in some areas of instruction.

Class level is determined by the number of credit hours earned by the student. Students having 0 to 23 credit hours are considered freshmen; those who have earned 24 to 53 credits are sophomores; those having 54 to 83 hours juniors; and those with more than 84 credit hours are classified as seniors.

Part-time students carry a roster of less than twelve hours per week. Students in this category will require more than the normal four years in which to earn a degree.

Students who do not fulfill certain admission requirements may be admitted to follow particular courses and are considered as special students. They do not register for a degree granting program. Credits earned by a special student may be counted towards a degree as soon as he has met all the requirements for admission and candidacy for a degree provided that the credits thus earned be applicable to his program of studies for the degree. A special student cannot hold a scholarship nor take part in extracurricular activities.

## **URBAN STUDIES**

Students may design a minor concentration by choosing distribution requirements and electives in Urban Studies. The Economics Department supervises this program but it is multi-discipline in all essentials. Economics, Political Science and Sociology faculty co-teach most of the courses and professors from an even wider group of disciplines serve in close advisory capacities.

After five introductory courses students complete their Urban Studies concentration with a senior semester of integrated seminars and field work. Placements and projects are chosen to complement major programs. At all levels students and faculty work closely with the staff of the La Salle Urban Studies and Community Services Center.

## **INTERNATIONAL STUDIES MINOR**

Any student, regardless of his or her major field, can pursue as an interest the Minor in International Studies. This multi-discipline program allows the student to select courses offered by many departments.

The Minor in International Studies requires a total of six courses. At least three of these can also fulfill other university requirements.

Economics, Political Science, and Business students will have to use only two or three electives in order to complete the program. Other students will have to devote about four elective courses for this purpose.

Students planning to spend one or two semesters abroad will probably be able to complete a portion of the program there and should meet with the Director before departing.

Interested students should see Dr. Joshua Buch, the Program Director, College Hall 314, Ext. 1030.

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## **WOMEN'S STUDIES MINOR**

The interdisciplinary Women's Studies Minor provides a contrast and balance to the traditional curriculum by putting women, their accomplishments and contributions, and traditional sex roles at the center of study. By choosing six courses from the interdisciplinary offerings, women and men students of any major may design a minor that complements their major. Courses are offered in the disciplines of English, communication arts, history, sociology, religion, philosophy, psychology, and foreign languages. A field internship or independent study may constitute one of the six required courses.

Interested students should see Dr. Laura Otten, Coordinator, Olney 366, ext. 1118.

## **DUAL MAJORS**

In some circumstances, a student with special needs and abilities may be permitted to major in two departments or to follow a special interdepartmental program. After developing the program in consultation with both departments, the student must obtain approvals of both chairmen and of the dean. Arrangements should normally be completed during the spring semester of the sophomore year.

## **MINORS**

In addition to their majors, students may also complete up to two minors. These minors will be officially noted on the transcript. Minors may be constructed in these subjects: accounting, art history, biology, chemistry, communication, computer science, criminal justice, economics, education, English, foreign language, geology, history, mathematics, music, philosophy, physics, political science, psychology, religion, and sociology. These minors require six courses within the discipline, *not counting foundation courses*. Stu-

dents interested in minoring in a subject should consult with the chair of that department for advice on the requirements.

Special minors may also be taken in these areas: General Business, Health Care Administration, International Studies, Risk Management and Insurance, Urban Studies, and Women's Studies. The requirements are listed in their proper alphabetical place in the Course Requirements section of this *Bulletin*.

## **HONORS PROGRAM**

The Honors Program provides the most academically talented students with an enriched program of general studies that will be both challenging and stimulating. The freshman honors student, as an apprentice in the program, studies in honors sections of two or three required courses. Students who prove themselves able and interested continue with honors courses in such areas as religion, philosophy, and English, which offer more depth and more advanced reading. In the upper division, such courses will frequently be given by distinguished visiting professors.

In the last two years, the honors student may, with the approval of the Chair, substitute an independent study course in each semester for any regularly scheduled course except religion or seminar. Class meetings in these courses are less frequent, and emphasis is on individual reading and research. Students who complete the requirements of the Honors Program are graduated with General University Honors. Further information on the program is available from the Director of the Honors Program.

## **COOPERATIVE EDUCATION PROGRAM**

The Cooperative Education Program permits students to integrate classroom theory with practical experience by alternating specific periods of attendance at the College with specific periods of employment.

A student may begin a coop program as early as the sophomore year and still complete requirements for graduation within four and a half years. Cooperative education can add relevance to a student's academic program, furnish practical experience, afford an understanding of human relationships outside of one's peer group, and provide realistic vocational information as well as financial assistance.

Students interested in learning more about this program should see the Director of Cooperative Education in the Career Planning and Placement Office.

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## **LA SALLE IN EUROPE—FRIBOURG, SWITZERLAND**

Recognizing the advantages of travel in other countries and first-hand contact with other cultures, La Salle University offers a sophomore and junior year program which provides its students a first-hand opportunity to study at the University of Fribourg in Switzerland. Nestled in the valley of the Sarine, Fribourg is one of the most beautiful cities in one of the most beautiful countries in the world.

A unique feature of the University of Fribourg is its official bi-lingual character; courses are offered in both French and German, often the same course in either language. In conjunction with Providence College, La Salle University forms part of the American College Program of the University of Fribourg.

In most instances, students will be housed in private homes or apartments located near the university. The rooms are chosen by the resident director of the program. Students accepted into the program attend an orientation course during the semester prior to departure. Those students deficient in French or German will be permitted to enroll in special courses during the summer before departure. A 2.5 Grade Point Average is required. Interested students should see Dr. Bernhardt Blumenthal, Director of the La Salle in Europe program.

## SPANISH LANGUAGE PROGRAM—UNIVERSITY OF MADRID

La Salle University is a member of the Academic Year Abroad Foundation which is affiliated with the University of Madrid, Spain. This program is for one semester or a full year. Courses are offered in the language, literature, history and art of Spain. In addition there is a special program for business students. Participants are placed with Spanish families. Meals are taken at the place of residence.

The principal aims of the program are:

1. To help the student achieve fluency in the spoken and written language.
2. To give the student the opportunity to experience and understand the nature of Spanish society and institutions through constant and direct exposure to the nation's history, art, and contemporary life.
3. To prepare the future teacher of Spanish for the role which he will play in the classroom situation.

Interested students should see Dr. Leonard Brownstein, Professor of Spanish.

## NURSES' COOPERATIVE PROGRAM

La Salle participates in a cooperative program with a number of area hospitals in teaching the basic sciences to the students from these hospital schools. The essential program remains under the control of the parent schools. These students receive college credit for those courses attended at La Salle.

## URBAN STUDIES AND COMMUNITY SERVICES CENTER

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The Urban Studies Center seeks to involve the resources of the College in the larger urban community. Its major programs are: (1) the Communiversity—non-credit adult education designed for area residents, (2) technical assistance to neighborhood groups in grant and program development, and (3) community organization services focused on the needs of the low-income, multi-racial and ethnic communities bordering the College. The Center also draws upon the experience of neighborhood leaders to enrich its programs and La Salle's Urban Studies curriculum. Students and faculty with urban research and social service interests are encouraged to visit the Center, located at the corner of Wister and Clarkson, or to call 215-951-1188.

## COURSES AT CHESTNUT HILL COLLEGE

The cooperation of La Salle with Chestnut Hill College, a Catholic college for women situated about five miles from La Salle, results in a valuable coordination of programs. Students from either of the associated colleges can register for courses at the other college, with full credits, and without the payment of extra tuition. The calendar for the academic year in both colleges is identical. Students wishing to register for courses offered at Chestnut Hill will follow the same procedure as when they register for courses at La Salle. Classes at Chestnut Hill begin on the hour, at La Salle on the half-hour.

Students interested in preparing for elementary education may take part in a special cooperative program with Chestnut Hill College, which may be arranged in consultation with the Dean of the School of Arts and Sciences.

## SUMMER SESSIONS

A variety of courses are offered in both day and evening sessions during the summer. A student may use these courses to enrich his academic program, to lighten his regular schedule, to make up failures, or, in some instances, to accelerate his progress toward a degree. The Summer Sessions are administered by the Dean of the Evening Division.

Properly qualified applicants from other accredited institutions are also admitted to the Summer Sessions.

## **ARMY RESERVE OFFICERS' TRAINING CORPS PROGRAM (ROTC)**

Students get leadership and management training in the military science program—and they graduate with an officer's commission as well as a degree in their chosen academic major. Successful completion of the advanced ROTC program results in second lieutenant status in the active or reserve components of the U.S. Army.

Students (male and female) may participate in the ROTC program at La Salle by so specifying on their course selection form. No service obligation is incurred during the first two years of the program. Military Science 100 and 200 level courses are tuition free to full-time students. See course descriptions, listed under Military Science.

Students who successfully complete both MSC 100 and 200 level courses may be chosen for the advanced course. Advanced course and ROTC Scholarship recipients also earn a monthly stipend of \$100.00. (See Financial Aid section for more information on the ROTC Scholarship Program.)

Students transferring to La Salle, or current students who have not previously participated in ROTC, may take advantage of the special two-year program. They should make arrangements through the Department of Military Science as soon as possible.

Additional information is available from the Department of Military Science, La Salle University, Philadelphia, PA 19141, (215) 951-1365.

## **AIR FORCE RESERVE OFFICERS' TRAINING CORPS**

La Salle students are eligible to participate in Air Force Reserve Officers' Training Corps (AFROTC) through a cross-enrollment agreement with St. Joseph's University. All Aerospace Studies courses will be held on the St. Joseph's campus. The AFROTC program enables a college student to earn a commission as an Air Force officer while concurrently satisfying requirements for a baccalaureate degree.

For further information on the cross-enrollment program, scholarships, and career opportunities, write or telephone the Professor of Aerospace Studies, AFROTC Det 750, St. Joseph's University, Philadelphia, PA 19131, (215) 879-7311.

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## **NAVAL RESERVE OFFICERS' TRAINING CORPS**

Through a cross-enrollment agreement with the NROTC unit at the University of Pennsylvania, La Salle students may earn commissions as naval officers while concurrently satisfying requirements for baccalaureate degrees at La Salle. NROTC courses will be held on the campus of the University of Pennsylvania. For further information on this cross-enrollment program or on scholarship aid, write or telephone: Professor of Naval Science, NROTC Unit, University of Pennsylvania, Philadelphia, PA 19104, (215) 898-7436.

## **ATTENDANCE POLICY**

Students are expected to attend classes regularly. Absences are permitted to provide for conditions beyond the control of the student. Ordinarily, these would be equal to twice the semester hours scheduled for the course; for example, six absences in a three-hour course. Attendance is noted from the first regular class meeting regardless of the time of registration.

## **EXAMINATIONS**

The last week of each semester is set apart for final examinations. Examinations to measure student progress are given at mid-term. Students who, for satisfactory reasons, fail to take a semester examination as scheduled may take a delayed examination.

## GRADES

The following system of grades is used in measuring the quality of student achievement.

A Superior	C Average	F Failure	W Withdrawal	U Unsatisfactory
B Very Good	D Passable	I Incomplete	S Satisfactory	X Audit

In the determination of final grades for courses, recitations, written assignments, and the results of the final examination are considered.

*Incomplete:* The I grade is a provisional grade given by an instructor to a student who has otherwise maintained throughout the semester a passing grade in the course, but who has failed to take the semester examination for reasons beyond his control. Make-up examinations for the fall semester must be completed before the opening day of the spring semester. All I grades that have not been removed within three weeks after the last regular examination of the semester become F's. When it is physically impossible for the student to remove this grade within the time limit, he must obtain a written extension of time from the dean of his school.

*Withdrawal:* The W grade is assigned when a student withdraws from a course with the dean's permission before its completion. Ordinarily permission for withdrawal is not granted after mid-term examinations.

*Satisfactory or Unsatisfactory:* Students may take up to two free electives under a pass/fail option. If they indicate this option to the Registrar within three weeks after the course begins, the grade for the course will be recorded as S or U. Such a grade will not affect the cumulative index, but semester hours graded S will be counted toward the total required for graduation. The purpose of this option is to encourage choice of challenging electives, including those outside the student's major field.

*Audit:* The X grade is assigned for courses audited. After obtaining permission from the course instructor and the dean, a student wishing to audit a course may sign up in the appropriate dean's office before the first day of class.

*Courses repeated:* If a student repeats a course, only the higher grade is counted in the academic index. A student may not repeat a course more than once without permission from his dean.

## CLEP EXAMINATIONS

Students may receive credit for approved courses taught in the La Salle University curriculum through participation in the College Level Examination Program (CLEP) of the College Entrance Examination Board, or through other authorized standardized testing procedures or in-house tests. Students who wish to attempt credit through examination must receive permission from their Dean's office to determine which examinations are acceptable to La Salle, and to obtain permission for participation.

While the Academic Dean determines the credits to be granted for CLEP and other authorized standardized testing procedures, the individual department designates the subject examinations which are applicable to specific courses at La Salle University. Students may not be granted credit for a general examination CLEP course after completion of the freshman year, and a student who has received credit through conventional courses or through standardized testing for one or more advanced courses in a discipline may not challenge a beginning course in that discipline. No grades are assigned to courses credited through authorized standardized testing procedures.

Students who elect to receive credit through authorized standardized testing procedures or approved in-house tests will pay an administrative fee of \$45.00 for each course examination taken.

## STUDENT RESPONSIBILITIES

A student's matriculation at La Salle University is a voluntary decision which involves acceptance of the responsibility to perform academically and to behave socially in ways consistent with the goals and objectives of the University. When registering at La Salle, the student accepts University rules and regulations and the authority of the University to exercise disciplinary powers including suspension and dismissal. As a member of student organizations and as an individual, the student assumes responsibility for knowing and complying with all existing regulations in the *University Bulletin*, the *Student Handbook*, *The Resident Student Survival Guide* and any rules and regulations subsequently promulgated through appropriate publication to the University community. Copies of the *Student Handbook* may be obtained from the Student Life Office.

## STUDENT REPORTS

A progress report is submitted to the Dean's Office by each instructor at the middle of each term. Final grades are submitted to the Registrar's Office at the end of a semester and these are made part of a student's permanent record. A report of semester grades is mailed to the student within two weeks after final examinations.

## SCHOLARSHIP INDEX

A scholarship index system is used at La Salle to determine a student's average grade. In determining the index, each letter grade is ascribed a numerical value, called grade points. A is valued at 4 grade points; B is valued at 3 grade points; C is valued at 2 grade points; D is valued at 1 grade point; F is valued at zero grade points.

A grade point score is calculated for each course by multiplying the numerical equivalent of the letter grade by the number of semester hours. The index, or the average grade of all courses, is found by dividing the sum of the grade point scores for all courses by the total number of semester hours of course work attempted.

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## ACADEMIC PROGRESS

A full-time student is making adequate progress toward the degree if he or she has:

1. completed within the academic year (fall, spring, and summer) eighteen hours of new course work at satisfactory academic levels as indicated:
  - a) completed freshman status—1.50 or above\*
  - b) completed sophomore status—1.75 or above\*
  - c) completed junior status—2.00 or above\*
  - d) within the senior year: 2.00 or above\*

\*See page 33 for definitions of status.

2. completed graduation requirements within a maximum of seven years of full-time study. For justifiable reason, exceptions may be determined by the Dean.

This policy statement defines the parameters within which the University will define the progress of the student for aid and funding purposes. Since the decisions rest with the granting agencies, "adequate progress" does not guarantee such aid.

## DEANS' HONOR LIST

The Dean's Honor List is published at the termination of each semester. Those students who have a cumulative average of 3.4 are placed on the Deans' List. To be eligible for this list, a student must have complied with all the regulations of the University and must have earned 24 credits with letter grades A, B, C, or D at La Salle University.

While students on the Deans' List are excused from class attendance regulations, they are expected to fulfill the requirements of every course rostered. They are also eligible for courses in the University's honors program.

## ACADEMIC CENSURE

Academic censure is intended to be a service to the student who is in academic difficulty. It serves to alert some to the severity of their academic problem and to encourage them to seek help and counsel they need. For others, it is the imposition of a time period away from academic endeavors to permit adjustment of priorities.

Academic censure may assume any one of three forms, depending on the student's academic standing. During the evaluation of student records at the end of each semester, a student will normally be subject to the form of academic censure indicated if the cumulative grade point average falls below the levels outlined.

(a) *Probation*. A student is placed on probation who has attained a cumulative grade point average of (a) less than 1.50 after the first or second term of freshman year, (b) less than 1.75 after the first or second term of sophomore year, (c) less than 1.90 after the first term of junior year, (d) less than 2.00 after the second term of junior year or during senior year. Such a student will be continued on probation until he has satisfied the conditions for good academic standing.

(b) *Suspension*. This is involuntary separation of the student from the University for a definite period of time, usually for two semesters. No academic work during a period of suspension will be accepted for a student's academic record at the University.

(c) *Dismissal*. This is involuntary separation of the student from the University for an indefinite period of time. No academic work during a period of dismissal will be accepted for a student's academic record at the University.

A student is liable to suspension or dismissal: (1) when he/she has attained a cumulative scholarship index (a) less than 1.00 after the freshman year, (b) less than 1.50 after the sophomore year, (c) less than 1.90 after the junior year or (2) when he/she is on probation for two successive semesters.

Decisions on Probation will be made following determination of grades after the Fall semester, and after the final La Salle summer session. Decisions on Suspension and Dismissal will be made following determination of grades after the final La Salle summer session.

## CREDIT FOR OFF-CAMPUS COURSES

Course work taken at other institutions by regularly-enrolled students at La Salle University may not be offered for credit unless the student has had written permission in advance from the dean of his school to take such courses. Credit is transferred only for marks of C or better. The student's index may be affected only if the credit is for a course previously taken at La Salle.

## REQUIREMENTS FOR A DEGREE

Students are responsible for filing an application for degree with the Registrar one year before the expected date of graduation.

Beginning with the graduating class of 1987, a candidate for the baccalaureate degree must have completed 120 semester credit hours which satisfy curricular requirements and which include at least 38 courses of 3 credit hours or more.

Certain curricula may require a number of hours exceeding this minimum. In addition to completing the required number of courses and hours, the student must also:

- (a) have obtained a C average or cumulative index of 2.00 in the total program of studies.
- (b) have fulfilled all course requirements controlled by the major department with a C average or a cumulative index of 2.00 in those courses.
- (c) have fulfilled the Foundation and Core Requirements.

**Requirements for a Second Bachelor's Degree:** La Salle will award either a B.A. or a B.S. degree to a student who has already earned a bachelor's degree from an accredited institution if these conditions are met:

- (a) The student will obtain written permission from the appropriate dean and chair.
- (b) If the student holds a bachelor's degree from La Salle, he or she will meet substantial requirements for the major as determined at the time the student matriculates in the second degree program. A minimum of 30 credit hours would be required.
- (c) If the student holds a bachelor's degree from another institution, a maximum of 70 credit hours may be transferred toward the second degree. The student must fulfill all core requirements as well as substantial requirements of the major as determined at the time the student enrolls in the second degree program.

## HONORS

The bachelor's degree with honors is conferred on a student who has completed his course at the College with an average of all marks not lower than 3.4 and who has not incurred the penalty of loss of good standing for disciplinary reasons.

The candidate for the bachelor's degree who has earned an average of 3.8 in all courses is graduated with the distinction *Maxima Cum Laude*.

The candidate who has earned an average of 3.6 is graduated with the distinction *Magna Cum Laude*.

The candidate who has earned an average of 3.4 is graduated with the distinction *Cum Laude*.

Honors are computed on the basis of the work done for eight semesters.

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## WITHDRAWALS

A student who withdraws from the University must submit a withdrawal notice to the dean of his school. The date of filing the withdrawal notice is considered as the date of withdrawal in all cases.

## TRANSCRIPTS

Students may apply at the Registrar's Office for a transcript of their collegiate work. Official transcripts bearing the signature of the Registrar and the seal of the University are sent, at the request of the student, to other institutions and organizations. Students requesting transcripts for their own use are given copies marked "student copy." Each student is sent a copy of his transcript at the time of graduation. A fee of \$2.00 is charged for an official transcript. The University requires at least one week's notice for the issuance of transcripts. No transcripts can be issued until all financial obligations to the University have been satisfactorily settled.

# Arts & Sciences

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## DEGREE PROGRAMS

The School of Arts and Sciences offers general or liberal arts programs and programs in science and mathematics. Within these two areas you may further specialize in a major field of study. In the liberal arts, the Bachelor of Arts degree is offered in art history, communications, economics, English, foreign languages, history, music, philosophy, political science, religion, and sociology. Concentration in the science area may lead to a B.A. degree in biology, chemistry, geology, mathematics, physics, or psychology.

The School also offers programs designed as preparation for health professions, law, public administration, teaching, social work, and work in criminal justice. The Bachelor of Social Work degree is conferred upon social work graduates.

### Preparation for the Health Professions

Students preparing for careers in the health professions (medicine, dentistry, veterinary medicine, podiatric medicine, optometry) generally major in biology or chemistry, but may elect to major in any program provided they schedule the required minimum science and mathematics courses to support their applications. The courses specified by the Association of American Medical Colleges for Medical School applicants are generally applicable as minimal requirement for any of the health professions. They are:

Chemistry	12-16 sem. hrs.
Physics	8 sem. hrs.
Biology	8 sem. hrs.
Mathematics	0-6 sem. hrs.

Most professional schools will accept these as minimal preparation, but recommend additional courses. Students should be alert to the fact that professional schools are interested in demonstration of aptitude in science and mathematics, and the courses taken must be those normally rostered by majors in these areas, not courses offered for non-major election.

In the normal review process in these schools, the applicant's full undergraduate record is scrutinized. The strong liberal arts component in the La Salle curriculum will provide evidence of broad interest and rounded academic development. Evidence of leadership and active interest in associated activities will lend strong additional support to applications.

Normally the competition for placement in these programs results in high acceptance standards. Grade point averages ranging from 3.0 to 3.5 are representative of levels expected in these programs. Students are encouraged to consult with the health professions adviser concerning admissions criteria at various schools.

### Preparation for Teaching

The teacher preparation program leads to eligibility for an Instructional I certificate to teach in either the elementary or secondary schools or to teach mentally and/or physically handicapped students in the elementary and secondary schools of Pennsylvania. The Pennsylvania Department of Education has granted program approval in the preparation of teachers of biology, chemistry, communications, earth and space science, English, French, German, Italian, Latin, mathematics, physics-mathematics, Spanish, special education, and comprehensive social studies. Students who satisfactorily complete the University's requirements in these areas are recommended by the Teacher Education Committee for a teaching certificate. Those planning to teach outside of Pennsylvania should familiarize themselves with certification requirements elsewhere.

The Education Departmental Board, consisting of faculty members from the education department, one faculty representative for each of the subject areas of teacher

preparation, and student representatives in the teacher preparation program makes final intradepartmental decisions on planning, conducting, and evaluating the teacher preparation program. A Teacher Placement Office on campus aids graduates in obtaining positions.

#### TEACHER CERTIFICATION PROGRAMS AND ADVISERS:

(Teacher certification is obtainable only in these areas.)

English—Brother Lawrence Colhocker

Biology, Chemistry—Brother Richard Hawley,

Communication (Non-print media)

—Brother Gerard Molyneaux

Comprehensive Social Studies—Dr. Gary Clabaugh

Earth and Space Science—Dr. Henry Bart

Elementary Education and Special Education

(Mentally and Physically Handicapped)

—Dr. Robert Vogel

French, German, Italian, Latin, Spanish—Dr. Leonard Brownstein

Mathematics and Physics—Brother Hugh Albright

(Further details on the specific requirements in each of these areas are available in the education department office or from the appropriate adviser.)

#### Preparation for Law

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Law schools do not prescribe particular curricula for admissions. La Salle University, therefore, approaches the preparation for law on an individualized basis, tailoring the program of each student to individual needs and desires. Thus, students may major in English, political science, history, etc., as preparation for law.

The Pre-Law Program offers the student a coordinated approach to course selection, preparation for the Law School Admission Test (LSAT), and both academic and admissions counseling. In addition, it provides many programs and panel discussions through the St. Thomas More Pre-Law Society. The Pre-Law Program is coordinated by Professor Arthur Shuman. Students are encouraged to contact him as soon as they are or may be interested in a career in law.

#### Preparation for Criminal Justice Professions

Students preparing for careers in criminal justice professions pursue a curriculum which combines liberal arts with intensive coursework in the behavioral and social sciences and specialized courses in criminal justice. A major in criminal justice qualifies the student for admission to graduate programs in criminal justice and prepares the student for entry-level positions in law enforcement, judicial administration, probation, parole and correctional administration.

#### Preparation for Social Work

The primary objective of the social work program is to prepare competent, generalist practitioners for entry-level positions in the social work profession. Building on a liberal arts foundation, a knowledge of basic social work theory is acquired. The student explores the biological, psychological, social, economic and political phenomena that have an impact on people. There is a heavy emphasis on the development of skills needed to mobilize systems and resources for the enhancement of social functioning for the humanizing of institutions, and for the promotion of social change.

A secondary objective of the program is to prepare students for graduate studies in social work and other human service professions. To this end, a firm theoretical base is laid to support advanced study.

Graduates of the program have developed careers in both public and voluntary agencies. They are in such fields as child welfare, family services, aging and public welfare. Many graduates choose to go on to graduate school either directly or after having gained work experience.

## THE CORE CURRICULUM

The Core Curriculum provides you with an opportunity to build a strong foundation for the future. It encourages you to work out a system of values rooted in the best thinking of the great minds of the past and present.

Whatever your eventual major, your core courses will have allowed you to acquire a basic body of knowledge and habits of thinking that are independent of career interests. The Core Curriculum at La Salle has been recently revised after several years of study and debate on the part of students, faculty, and administrators. This new curriculum will give you a real advantage as you attempt to build your life and your career after graduation. It will help you *learn how to learn* by giving you experience in researching information, understanding relationships, and communicating effectively with others.

While the Core allows you some freedom of choice, it includes guidelines which should provide coherence in your college education. The Core Curriculum prepares you to adapt to the ever-changing world by exposing you to a well-thought-out plan aimed at encouraging four years of intellectual and personal growth. The Core Curriculum consists of three parts: Foundation, Core I, and Core II.

**Foundation Courses** (7-9 courses, normally completed by end of sophomore year)

These courses are most directly related to the liberal education approach that is basic to La Salle's aims and traditions. Depending upon your previous preparation, you will take foundation courses in writing, literature, history, computer science, philosophy, science, religion, and social science. The writing and computer science courses are intended to give you the tools you need; the others will acquaint you with some of the best that has been written or thought in each field. The University may waive a writing course or a computer science course if your background so warrants.

**Core I Courses** (6 courses, normally completed by end of junior year) *Foundation courses may not satisfy this requirement unless required by your major department.*

These courses are an opportunity to build upon the foundations you have in place.

In Core I A, you take *three* courses in Religion and Philosophy (two in one subject and one in the other).

In Core I B, you also take a sequence of three courses in **one** of these:

- History
- Fine Arts (Art or Music)
- Foreign Languages (Classical languages, French, German, Italian, Russian, Spanish)
- Literature

Each sequence has been planned by the individual department to provide growth in the knowledge and skills of that subject.

**Core II Courses** (2 courses from a subject or combination of subjects listed below. May not be in your major subject or in the subject you chose for your Core I sequence.)

- Fine Arts (Art or Music)
- Foreign Language (Must be in same language.)
- History
- Literature
- Social Science (Economics, psychology, political science, sociology)

## MAJOR REQUIREMENTS

Requirements for majors in each department are listed along with that department's course descriptions in this catalog.

## FREE ELECTIVES

Students may choose to concentrate free electives in a particular discipline to build a minor or may use these electives to diversify their background or broaden their interests. Free electives may be taken on a pass/fail basis.

## DESIGNATED MINORS

A student may designate up to two minors, which will be officially recorded on the transcript as minors. The School of Arts and Sciences offers minors in the following disciplines: art history, biology, chemistry, communication, computer science, criminal justice, economics, education, English, foreign language, geology, history, mathematics, music, philosophy, physics, political science, psychology, religion, sociology. Special minors are also available in General Business, Health Care Administration, International Studies, Risk Management and Insurance, Urban Studies, and Women's Studies.

*Requirements:* To minor in a discipline listed above, you must complete six courses within the discipline (not counting Foundation Courses). Courses used to meet Core I or Core II requirements may also be used in constructing a minor. At least two of the six must be at the 300-400 level. No more than two may be at the 100-level. The remaining two or three may be at the intermediate level.

The requirements for the Special Minors are listed in their proper alphabetical positions in the Course Descriptions section of this catalog.

## MODEL ROSTER—ARTS & SCIENCES

### FRESHMAN YEAR

Fall	Spring
Major Course	Major Course
Major Course or *Elective	Major Course or *Elective
Writing or Foundation	Writing or Foundation
Literature or	Literature or
CSC Foundation	CSC Foundation
REL or PHL Foundation	REL or PHL Foundation

### JUNIOR YEAR

Fall	Spring
Major Course	Major Course
Major Course	Major Course
Core Course	Core Course
Core or *Elective	Core or *Elective
*Elective	*Elective

### SOPHOMORE YEAR

Fall	Spring
Major Course	Major Course
Major Course or Core	Major Course or Core
Science or Other Foundation	Science or Other Foundation
Core Course	Core Course
Core Course	Core Course

### SENIOR YEAR

Fall	Spring
Major Course	Major Course
Major Course	Major Course
Major or *Elective	Major or *Elective
*Elective	*Elective
*Elective	*Elective

\*Elective Courses: Elective Courses in the Freshman and Sophomore years should be used to complete the Core. Elective Courses in the Junior and Senior years should be used to complete dual majors, minors, or for personal enrichment.

# PROGRESS RECORD

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## FOUNDATION (7-9 courses)

1. Writing I <sup>1</sup> _____	5. Philosophy _____
2. Writing II _____	6. Social Science _____
3. Literature <sup>2</sup> _____	7. History _____
4. Religion _____	8. Science _____
	9. Computer Science <sup>3</sup> _____

<sup>1</sup>May be waived by decision of the University before you begin course work.

<sup>2</sup>May be in English or in Foreign Language Literature in English translations.

<sup>3</sup>May be waived by challenge examination before you begin course work.

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## CORE I (6 courses)

I A (3 courses)  
Religion and Philosophy

## I B (3 courses from any one of these disciplines)

Fine Arts	History
Foreign Language	Literature

1. REL _____	1. _____
2. PHL _____	2. _____
3. REL or PHL _____	3. _____

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## CORE II (2 courses from one discipline or from a combination of disciplines)<sup>5</sup>

Fine Arts	Literature	1. _____
Foreign Language <sup>4</sup>	Social Science	2. _____
History		

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<sup>4</sup>Both courses must be in same foreign language.

<sup>5</sup>Also approved to fulfill Core II requirement: COM 204, 210. EDC 201, 203.

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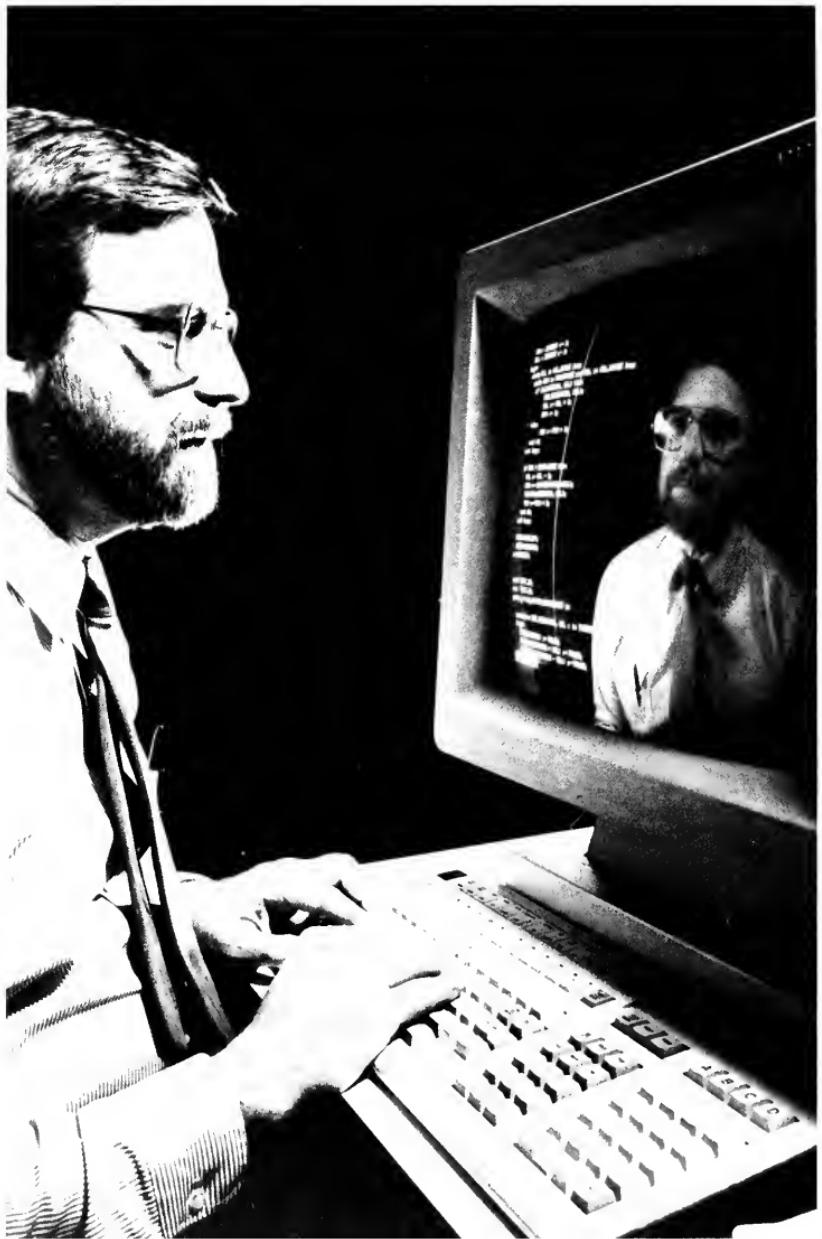
## MAJOR COURSES

1. _____	8. _____
2. _____	9. _____
3. _____	10. _____
4. _____	11. _____
5. _____	12. _____
6. _____	13. _____
7. _____	14. _____
	15. _____

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## ELECTIVES

1. _____	6. _____
2. _____	7. _____
3. _____	8. _____
4. _____	9. _____
5. _____	10. _____



# Course Descriptions

Courses listed in this catalog are subject to change through normal academic channels. New courses and changes in existing course work are initiated in the departments and approved by the curriculum committee consisting of faculty, student, and administrative representatives.

**Key:** (F)—Offered in fall term; (S)—Offered in spring term; (F, S)—Course may be rostered in either fall or spring term. The year is indicated if the course is offered in alternate years. When a course number has been changed this year, the former number is given in parenthesis. Courses approved for Core I (3-course sequence) or Core II (2-course option) are so indicated.

## ART HISTORY

(See Fine Arts.)

## BIOLOGY\*

BROTHER RICHARD HAWLEY, F.S.C., M.A., Chair

Associate Professors. Belzer, Lowery, Mickle, Muldoon, Seitchik  
Assistant Professors. Hawley, Ksiazek, McPhillips, O'Connor

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## FOUNDATION COURSES

### BIO 154 (F, S)

ECOLOGY AND ENVIRONMENTAL  
ISSUES

3 credits

Lectures, visuals, and demonstrations to introduce basic ecological principles and environmental issues from a scientific and sociological viewpoint. Topics include: ecosystems, trophic levels and food webs, populations, natural resources, and pollution. Three hours lecture, no laboratory.

### BIO 155 (F)

LIFE BEFORE BIRTH

3 credits

Lectures, visuals, demonstrations, and student investigation will illustrate the sequential formation of the human body from production of the reproductive cells, through fertilization and organ formation, to birth. In addition, common developmental problems and their causes will be discussed. Three hours lecture, no laboratory.

### BIO 156 (S)

HUMAN GENETICS

3 credits

Lectures, supplemented with visuals and demonstrations to illustrate the general principles of genetic transmission and their application. Discussion of currently developing technologies and procedures for genetic control which might have an impact on humans and of problems arising from gene and/or chromosomal abnormalities. Three hours lecture, no laboratory.

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### Required for Major in Biology: 17 courses

- BIO 201, 202, 203, 407-408, and additional biology courses to total a minimum of 33 hours (BIO 301 is recommended by the department; sequence may be decided by the student.)
- CHM 111-112, 201-202
- MTH 113-120 (BIO 314 may be substituted if MTH 120 is taken as first course.)
- PHY 105-106

(N.B. 100-level Biology courses and BIO 251 may not be used to fulfill Biology major requirements.)

\*Non-majors planning to elect biology courses above the 100 level must secure the permission of the chairman. BIO 201 is a prerequisite for all courses above the 200 level.

**BIO 161-162****ANATOMY AND PHYSIOLOGY**

4-8 credits

A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. Three hours lecture, two hours laboratory; two terms.

**BIO 201 (F, S)****PRINCIPLES OF BIOLOGY**

4 credits

Integrated principles of modern biology; the attributes of life and hypotheses of its genesis; the continuity of life and its diversification; energy sources and the biological energy cycles; cells, organisms, and their structure and communities. *Required of all biology majors; normally taken as first major course; may be waived for advanced standing.* Prerequisite: CHM 111-112. Three hours lecture, two hours laboratory.

**BIO 202 (F, S)****THE INVERTEBRATES**

4 credits

Life processes, phylogenetic advances, and basic classification of the major pre-Chordate phyla with emphasis on their evolution and ecology. Three hours lecture, two hours laboratory.

**BIO 203 (F, S)****THE PLANT KINGDOM**

4 credits

Functional anatomy, phylogeny, and basic systematics of non-vascular and vascular plants. Three hours lecture, two hours laboratory.

**BIO 251 (S)****CLINICAL MICROBIOLOGY**

3 credits

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The physical and chemical techniques available for the destruction of microbes; the prevention of microbial contamination; role of specific pathogens in the etiology of human disease processes; chemotherapeutic and antibiotic preparations available to assist the body mechanisms. Recommended for nurses. Two hours lecture, two hours laboratory.

**BIO 301 (F, S)****THE VERTEBRATES**

4 credits

Comparative systemic anatomy of the vertebrate classes; hypotheses of origin and radiation of the phylum Chordata. Laboratory dissections of representative Chordates from amphioxus to mammal. Two hours lecture, four hours laboratory.

**BIO 303 (F, S)****MICROBIOLOGY**

3 credits

A lecture-laboratory course concerned with the role of micro-organisms in nature and especially in human affairs. Two hours lecture, two hours laboratory; one term.

**BIO 305 (F)****GENERAL PHYSIOLOGY**

3 credits

Metabolic processes and associated physicochemical phenomena of living organisms. Current hypotheses of muscle, endocrine, neural, respiratory, cardiovascular, and nutritional physiology. Two hours lecture, two hours laboratory.

**BIO 306 (S)****NEUROMUSCULAR PHYSIOLOGY**

3 credits

A physiological study of cardiac, skeletal, and smooth muscle and their relationship to the central and autonomic nervous systems. Two hours lecture, two hours laboratory.

**BIO 308 (F)****MICROTECHNIQUE**

3 credits

Histochemical and cytological techniques associated with the preparation of animal and plant materials for microscopic study. One hour lecture, four hours laboratory.

**BIO 310 (S)****GENETICS**

3 credits

Mendel's laws of heredity as observed in plants and animals, the scope and method of modern genetics. Two hours lecture, two hours laboratory.

**BIO 312 (F)****RADIOBIOLOGY**

3 credits

Nuclear technology as applied to life sciences; theory, instrumentation, and use of radioactive isotopes in animals and plants. Two hours lecture, two hours laboratory.

**BIO 314 (S)****BIOMETRICS**

3 credits

Analysis of experiments and research data in quantitative biology. Probability distributions, analysis of variance, rectilinear and curvilinear regression, and correlation. Three hours lecture.

**BIO 315 (S)****PLANT PHYSIOLOGY**

3 credits

Metabolic and physical processes of plants. Emphasis on photosynthesis, photorespiration, mineral nutrition, transpiration, phloem transport, intermediary metabolism, and hormonal activity. Prerequisite: BIO 201; recommended prerequisite: BIO 203. Two hours lecture, two hours laboratory. Offered in the spring semester of odd-numbered years.

**BIO 316 (S)****PLANT ANATOMY**

3 credits

Structure of plant tissues and organs, particularly those of higher vascular plants. Emphasis on vegetative organs, but reproductive organs are discussed. Structure correlated with function and/or habitat. Prerequisite: BIO 201; recommended prerequisite: BIO 203. Two hours lecture, two hours laboratory. This course is offered in the spring semester of even-numbered years.

**BIO 318 (F)****EVOLUTION AND POPULATION GENETICS**

3 credits

A presentation and analysis of the evidence for the evolution of life. Major topics include the origin of life and cellular organelles as well as the development of the diversity of life present today. Heavy emphasis on the ideas of Charles Darwin as expanded and modified by evidence from modern population genetics, cytogenetics and molecular biology. Offered in fall term of odd-numbered years.

**BIO 401 (F)****TAXONOMY OF THE ANGIOSPERMS**

3 credits

Angiosperm systematics, field collecting and identifications; herbarium and greenhouse practice. Phylogeny, characteristics, and importance of the leading families of flowering plants. Offered in fall term of even-numbered years. Two hours lecture, two hours laboratory.

**BIO 402 (F)****CELL BIOLOGY**

3 credits

Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Two hours lecture, two hours laboratory.

**BIO 403 (F)****PRINCIPLES OF ECOLOGY**

3 credits

Basic concepts of ecological theory; physical and biotic factors affecting the evolution, behavior, and community organization of organisms. Three hours lecture with field observations.

**BIO 404 (S)****FIELD ECOLOGY**

3 credits

Project laboratory at La Salle Penllyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Prerequisite: BIO 403. Six hours laboratory and field work.

**BIO 405 (F, S)**  
**HISTOLOGY**

4 credits

The minute and ultra structure of mammalian primary tissues together with their functional relationships in the formation of major organ systems: histological basis of function is stressed. Two hours lecture, four hours laboratory.

**BIO 406 (F, S)**  
**EMBRYOLOGY**

3 credits

Fundamental processes underlying vertebrate development and differentiation; the frog, chick, and human form the basis of instruction. Two hours lecture, two hours laboratory.

**BIO 407-408**

**BIOLOGICAL CHEMISTRY**

4-8 credits

The principles of physical chemistry as they apply to biochemical reactions and the principal biochemical species and reaction sequences, the role of these reactions in specific biological functions. Laboratory application of techniques of analytical chemistry to analysis of biochemical reactivity. Three hours lecture, three hours laboratory; two terms.

**BIO 470 (F, S)**

**SPECIAL TOPICS IN BIOLOGY**

3 credits

Presentation of review papers and discussions of assigned topics from main currents of biological research; participants to be recommended by department staff.

**BIO 480-481 (F, S)**

**BIOLOGICAL RESEARCH**

2-4 credits

For election, particularly by qualified students contemplating postgraduate studies. Intended to provide actual research experience under staff supervision. Permission of chairman required. Hours to be arranged.

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## **CHEMISTRY**

THOMAS S. STRAUB, Ph.D., *Chair*

*Associate Professors:* Shalhoub, Straub

*Assistant Professors:* Cichowicz, Jones, Price

*Lecturer:* Polek

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## **FOUNDATION COURSE**

**CHM 150 (F, S)**

**CONSUMER CHEMISTRY**

3 credits

A non-mathematical examination of the development of fact and theory in chemistry and the utilization of chemistry by society. Topics may include: energy, pharmaceuticals, environmental effects, food additives, and synthetic materials. No prior knowledge of chemistry required.

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**Required for Major in Chemistry: 15 courses**

- CHM 111-112, 201-202, 301-302, 305, 401, 402, 403
- MTH 120, 221, 222 (It is strongly suggested that chemistry majors begin with Mathematics 120 as freshmen.)
- PHY 105-106 (PHY 211 is excellent preparation for CHM 301 and 302, but is not absolutely required.)
- The department suggests that all chemistry majors have at least 400 hours of lecture and 500 hours of laboratory work, CSC 155 and 156 or a reading knowledge of a foreign language.

some advanced work in chemistry (normally CHM 308 or 470), and some research experience are recommended. This additional work may qualify a chemistry major for accreditation by the American Chemical Society. The chemistry program is accredited by the American Chemical Society.

**CHM 111-112**

GENERAL CHEMISTRY

4-8 credits

A general course based on physical principles; emphasis on elementary thermodynamics with applications to gases, solutions, heats of reaction, electrochemistry, ionic and non-ionic equilibria. Concepts of elementary quantum mechanics applied to spectral concepts and the theory of the chemical bond. Reaction kinetics applied to reaction mechanisms. Descriptive chemistry of the representative elements and transition metal complexes. Laboratory stresses the quantitative aspects of chemistry. Three hours lecture, three hours laboratory.

**CHM 161 (F)**

CHEMISTRY OF THE LIFE SCIENCES

4 credits

A terminal course for students who wish to obtain a general knowledge of chemistry with emphasis on the processes in the body and in nature. Descriptive and some quantitative principles discussed. Three hours lecture, three hours laboratory.

**CHM 201-202**

ORGANIC CHEMISTRY

4-8 credits

Chemistry of carbon compounds with emphasis on structure, stereochemistry, synthesis and reaction mechanisms. Application in allied fields. Laboratory introduces techniques involved in organic synthesis, analysis, and study of reaction mechanisms. Intended for majors in chemistry, biology, and all students pursuing careers in the health professions. Prerequisites: CHM 111-112. Three hours lecture, three hours laboratory; two terms.

**CHM 301-302**

PHYSICAL CHEMISTRY

4-8 credits

Elementary principles of physical chemistry discussed and illustrated by suitable laboratory experiments. The ideal gas, real gases, liquids, solids, elementary thermodynamics, thermochemistry, solutions, equilibria, kinetics, electromotive force, electrical conductivity, and chemical thermodynamics. Prerequisites: CHM 201-202, MTH 221-222. Three hours lecture, three hours laboratory; two terms.

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**CHM 305 (F)**

QUANTITATIVE ANALYSIS

4 credits

Neutralization, oxidation-reduction, chemical equilibria, colorimetry, and the methods of quantitative chemical analysis. Thorough training in volumetric, gravimetric, and colorimetric techniques. Two hours lecture, six hours laboratory. Prerequisite: CHM 112.

**CHM 306 (S)**

QUANTUM CHEMISTRY

2 credits

Quantum mechanics applied to the solution of some elementary systems. Discussion of chemical bonding. Introduction to elementary statistical mechanics using results derived from quantum mechanics. Prerequisites: CHM 301-302.

**CHM 308 (S)**

BIOCHEMISTRY

4 credits

The chemistry of carbohydrates, fats, proteins, vitamins, enzymes, and hormones; emphasis on their roles in biochemical processes. Laboratory work illustrates common techniques used to prepare, identify, and assay biochemical materials. Prerequisites: CHM 201-202, 301. Three hours lecture, three hours laboratory.

**CHM 401 (F)**

QUALITATIVE ORGANIC ANALYSIS

4 credits

A study of the classifying reactions of organic compounds as exemplified by the analysis, identification, and characterization of compounds and mixtures in the laboratory. A one-hour lecture per week devoted to advanced spectral methods as applied to structure determination. One hour lecture, seven hours laboratory per week. Prerequisites: CHM 201-202.

<b>CHM 402 (S)</b> ADVANCED QUANTITATIVE ANALYSIS, INSTRUMENTAL ANALYSIS	4 credits
Theory and practice of physical measuring instruments with particular attention to modern trends in analytical chemistry. Prerequisites: CHM 301, 302, 305. Two hours lecture, six hours laboratory.	
<b>CHM 403 (F)</b> ADVANCED INORGANIC CHEMISTRY	3 credits
Theoretical aspects of chemical bonding, descriptive chemistry trends relative to the periodic table, molecular structure and symmetry of molecules, and general discussion of the transition metals, their complex ions, and their organometallic chemistry. Prerequisites: CHM 201-202, 301-302. Three hours lecture, three hours laboratory.	
<b>CHM 404 (S)</b> ADVANCED ORGANIC TOPICS	4 credits
Designed to extend the knowledge of organic chemistry; emphasis on those topics not fully developed in the elementary course. An introduction to the literature of chemistry is also included. Prerequisites: CHM 201-202, 301. Three hours of lecture.	
<b>CHM 450 (F, S, Summer)</b> COOPERATIVE CHEMICAL EDUCATION	3 credits
A cooperative experience between the chemistry department and chemical industry to provide on-the-job training in fields relating to chemistry and industry. On approval of the chairman only.	
<b>CHM 470 (F, S)</b> SPECIAL TOPICS	3 credits
Courses in "Polymers and Polymer Coatings" and in "Chemical Marketing" are offered as Special Topics in the Evening Division and are open to day students.	
<b>54</b>	
<b>CHM 480 and or 481 (F, S)</b> CHEMICAL RESEARCH	4-8 credits
Individual laboratory or theoretical work under supervision of a staff member. <i>Restricted to chemistry majors.</i> Hours to be arranged.	

## COMMUNICATION ARTS

GERARD F. MOLYNEAUX, F.S.C., Ph.D., *Chair*  
*Associate Professors:* Goedkoop, Molyneaux, Wine  
*Assistant Professors:* Kirk, MacLeod  
*Instructor:* Dobris  
*Lecturers:* Lyons, McGoldrick, Perrello

### Required for Major in Communication: 15 courses

- COM 201, 202, 203, 204, 206, 301, 302 or 303, 304, 305, 401, 403, 404
- Three English electives (excluding: Foundation Courses, English 109, 160, 165, 166, 300, 310, 350-351, 461)

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## CORE COURSES

### Approved courses for Core II:

COM 204, 210. You may choose one or two communication courses to fulfill Core II requirements.

<b>COM 201 (F, S)</b> INTRODUCTION TO MASS MEDIA	3 credits
Investigation of newspapers, magazines, radio, television, and film as mass media. Influence of the medium on content. Internal and external efforts at regulation.	

<b>COM 202 (F, S)</b> INTERPERSONAL COMMUNICATION	3 credits
Through lectures, demonstrations, and laboratory experiences, students learn current theories of communication and improve their skills in communicating personally and through media. Group and individual analysis of the dynamics of communication processes.	
<b>COM 203 (F, S)</b> MEDIA: DESIGN AND PRODUCTION	3 credits
Analysis and production of visual communication through still photography, television, and film to develop skills in perception and composition of visual communication.	
<b>COM 204 (F, S)</b> FILM AS ART	<b>CORE II</b> 3 credits
Screening of films by outstanding American and foreign directors: Hitchcock, Welles, Bergman, Kurosawa, Kubrick, Allen, Scorsese and others. Study of how the films were created, of how we may analyze them, and of how the art of film has changed through history.	
<b>COM 206 (F, S)</b> FUNDAMENTALS OF JOURNALISM	3 credits
Reporting and interviewing techniques, newswriting, copy editing and headline writing, the editorial, the feature story, newspaper makeup and design, libel, and the responsibility of the press. Two hours lecture, one hour of field assignment weekly.	
<b>COM 210 (F, S)</b> DYNAMICS OF COMMUNICATION	<b>CORE II</b> 3 credits
Introduction to the theories and practices of interpersonal and group communication and public speaking. Development of skills in listening, observation, verbal and non-verbal communication, and planning, researching, and delivering the public speech.	
<b>COM 301 (F, S)</b> BROADCASTING IN AMERICA	3 credits
A study of the structure of broadcasting in America and of its interaction with society. Prerequisite: COM 201.	
<b>COM 302 (F)</b> BROADCAST NEWSWRITING	3 credits
Introduction to and application of newswriting for radio and television, including hard news, features, and documentary formats.	
<b>COM 303 (S)</b> SCRIPTWRITING	3 credits
Introduction to and application of scriptwriting techniques in formats appropriate for the media of radio, television, and film.	
<b>COM 304 (F, S)</b> RADIO PRODUCTION	3 credits
Introduces students to the fundamental theories and practices of radio production. Topics include: arranging the programming day; scripting news, dramatic and commercial presentations; training of personnel for actual programming. Prerequisite: COM 203.	
<b>COM 305 (F, S)</b> TELEVISION PRODUCTION	3 credits
Introduction to the planning, production, and editing methods of electronic communication. Includes pre-production scripting and participation in production of videotaped television shows. Prerequisite: COM 203.	
<b>COM 401 (F, S)</b> ADVERTISING AND PUBLIC RELATIONS WRITING	3 credits
How to write copy for print advertising and press releases, with an emphasis on creativity. The marketing process, campaign strategy, and advertising research. Preparation of a total campaign, requiring oral and written presentations in either advertising or public relations.	

**COM 403 (F, S)**  
FILM SEMINARS

3 credits

The motion picture as industry, as historical record, and as art. Among topics offered: documentary film, film comedy in America, film theory and criticism, film history, the great directors. Prerequisite: COM 259 or permission of instructor.

**COM 404 (F)**  
BROADCAST SEMINARS

3 credits

Broadcast Regulation and Law, Future Technologies, and Communication Theories are offered as separate broadcast seminar topics. Junior and Senior students may select one or more of these topics for their seminar course(s).

**COM 450**  
COOPERATIVE EDUCATION

3 credits

Consult with department chairman. Prerequisite: junior or senior standing.

**COM 461 (F, S)**  
INTERNSHIP

3 or 6 credits

Students may intern at advertising, public relations, publishing and broadcasting companies. Working approximately 15 hours a week under professional supervision, they learn how to apply their education to the everyday demands of these positions. Required: Junior or senior standing, 2.75 grade point average, and recommendation of the chair.

**COM 462 (F, S)**  
INTERNSHIP

6 credits

Intern will work approximately 25-30 hours per week.

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### COMPUTER SCIENCE

(See Mathematical Sciences.)

### CRIMINAL JUSTICE

(See Sociology, Social Work and Criminal Justice.)

### ECONOMICS

RICHARD T. GERUSON, Ph.D., *Chair*  
Professors: Ciesla, Flubacher, Kane, Mooney  
Associate Professors: Duffy, Geruson, Grady  
Assistant Professors: Cairo, George, Ratkus

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### FOUNDATION COURSE

**ECN 150 (F, S)** **CORE II**  
INTRODUCTORY ECONOMICS I 3 credits

A study of the economic system, including a comparison of market and command economies and consideration of the influence of government policies on economic activity. Emphasis on the U.S. economy and factors which determine employment, inflation, gross national product, and the money supply.

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### CORE COURSES

**Approved courses for Core II:**  
ECN 150, 201, 203, 230, 231. You may choose one or two economics courses to fulfill Core II requirements.

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**Required for Major in Economics: 15 courses**

- ECN 150, 201, 202, 203, 213, 214, 303, 304, 411, 412, 480
- MTH 111-112 (MTH 113, 120, 240 recommended in preparation for graduate school)
- Two courses in the social sciences (psychology, political science, or sociology).

**ECN 201 (S)**

## INTRODUCTORY ECONOMICS II

**CORE II**

3 credits

An introduction to microeconomic theory. Topics include: economic problems of the business firm; economic growth of society; urban problems associated with economic growth; economic approaches to ecological issues; international trade issues; economic problems of poor countries.

**ECN 202 (F)**

## MONETARY ECONOMICS

3 credits

A study of the monetary and financial system of the U.S. economy. Emphasis on the importance of the money supply, the demand for money, and interest rates, along with more recent developments in the study of monetary variables. Instruments of monetary policy discussed and evaluated in the context of contemporary economic theory; the position of the American financial system in the international financial network. Prerequisites: ECN 150, 201.

**ECN 203 (S)**

## AMERICAN ECONOMIC HISTORY

**CORE II**

3 credits

Analyzes long-term economic growth and development since 1600. Stresses demographic, technological, institutional factors interacting with the market system. Covers imperialism, slavery, industrialization and urbanization, role of government, rise of service economy. Applies basic economic questions and theories of growth to developmental questions.

**57****ECN 213 (F, S)**

## ECONOMICS AND BUSINESS STATISTICS I

3 credits

Identical with QNT 213. Prerequisite: CSC 151.

**ECN 214 (F, S)**

## STATISTICAL TECHNIQUES IN ECONOMICS AND MANAGERIAL DECISION MAKING

3 credits

Identical with QNT 214. Prerequisite: ECN 213.

**ECN 230 (F, S)**

## THIRD WORLD POVERTY AND ECONOMIC DEVELOPMENT

**CORE II**

3 credits

An analysis of the causes of poverty in underdeveloped countries. Theories of development and policies to promote development emphasized. Social, political, cultural factors, and relations with rich countries also treated. Prerequisite: ECN 150.

**ECN 231 (F)**

## INTERNATIONAL ECONOMICS

**CORE II**

3 credits

An introduction to the theory of international exchange, to natural and policy barriers to trade, to relations between developed and developing countries, and to international disequilibrium. Stress on the evolution of the international monetary system and selected current problems such as balance of payments, exchange standards, liquidity, and the role of international institutions. Prerequisite: ECN 150.

**ECN 301 (F, S)**

## LABOR PROBLEMS IN AMERICA

3 credits

Study of the sources of the union movement, its history, structure, and functions. Attention to the development of economic, political, and social power, as well as to the problems involved in the use of this power; management rights and management reaction to unions are also treated. Prerequisites: ECN 150, 201. Identical with PLR 301.

**ECN 302 (F, S)**

## MANAGERIAL ECONOMICS

3 credits

Forms of competitive behavior, uses of marginal cost analysis, pricing techniques, and profit and demand measurement and forecasting. The process of evaluating alternative business solutions and tentatively formulating policies. Prerequisites: ECN 150, 201; MTH 111-112 and QNT 213.

<b>ECN 303 (F)</b> INTERMEDIATE MICRO THEORY I: PRICE THEORY	4 credits
Theory of consumer behavior, production, and cost. Price determination of products in various market models and of factors of production. Welfare economics. Prerequisites: ECN 150, 201 and MTH 111-112.	
<b>ECN 304 (S)</b> INTERMEDIATE MACRO THEORY II: THEORY OF EMPLOYMENT, GROWTH, AND FLUCTUATIONS	4 credits
Theory of the level of income and employment. Theories of economic growth, traditional and modern. Theories of economic fluctuations, stabilization policies, and forecasting. Prerequisites: ECN 150, 201 and MTH 111-112.	
<b>ECN POL 320 (F)</b> INTRODUCTION TO URBAN STUDIES	3 credits
Interdisciplinary analysis of cities and urbanization. Examines comparative cause and effect patterns. Places the American experience in long run, world perspective. Stresses the post-1920 metropolitanization and how resultant urban problems interact with wider social and economic forces. Prerequisites: 6 hours of social science.	
<b>ECN POL 321 (S)</b> SEMINAR IN URBAN STUDIES	3 credits
Analyzes social and economic policy decisions towards urban America since World War II. Urban finance, housing, crime, schooling, transportation, and selected other areas examined. Includes evaluation of limits, directions, and mix of government and private sectors. Prerequisites: 6 hours of social science. Prerequisite: ECN/POL 320.	
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<b>ECN 404 (S)</b> PUBLIC FINANCE	3 credits
An analysis of the revenue and expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity, and stability in the economy. Prerequisites: ECN 150, 201.	
<b>ECN 411 (F)</b> HISTORY OF ECONOMIC THOUGHT	3 credits
A detailed study of the leading economic concepts and schools of economic thought from the mercantilists up to and including Alfred Marshall.	
<b>ECN 412 (S)</b> CONTEMPORARY ECONOMIC SYSTEMS	3 credits
A continuation of ECN 411 until Keynesian economics has been treated; a history and analysis of socialist and Marxist thought culminating in a comparative study of the structure and function of the economies of the United States and the Soviet Union.	
<b>ECN 470 (S)</b> SPECIAL TOPICS	3 credits
Concentration on a particular aspect of economic theory or economic issues. Topics will vary according to student interest and availability of faculty.	
<b>ECN 480 (F, S)</b> SEMINAR	3 credits
A study of methodology in economics and of the techniques of preparing research reports. Prerequisite: Senior standing in Economics.	

## EDUCATION

PRESTON D. FESEN, Ed D., Chair

ROBERT VOGEL, Ed D., *Director of Elementary and Special Education*

LAWRENCE COLHOCKER, F.S.C., Ed.D., *Director of Secondary Education*

GARY CLABAUGH, Ed.D., *Director of Graduate Education*

Associate Professors: Bangs, Clabaugh, Feden, Lambert, Vogel

Assistant Professors: Colhocker, Schoen

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### CORE COURSES

#### **Approved courses for Core II:**

EDC 201, 203. You may choose one or two education courses to fulfill Core II requirements.

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#### **Major in Education**

La Salle University offers teacher preparation programs in secondary, elementary and special education (see below). These programs are approved by the Pennsylvania Department of Education and lead to a B.A. degree and recommendation for Instructional I certification in the area(s) chosen by the certification candidate.

Students may declare a major in education in the freshman year. Because of the nature of the requirements for certification, declaring the major as early as possible is highly recommended.

Application for admission to candidacy for certification is normally made at the end of the sophomore year. In order to be admitted to candidacy, students must have an overall index of at least 2.0, and an index of 2.5 or better in all education course work. Secondary education majors must also have a 2.5 or better in the associated major (English, Mathematics, Chemistry, etc.). All candidates for certification must be recommended by appropriate faculty members, and their applications must be approved by the Education Department.

Before being accepted into the Professional Semester (Secondary Education majors) or the Professional Year (Elementary and Special Education majors) students must be recommended by the Education Department faculty. Recommendations are predicated upon successful completion of all course requirements with the indexes specified above and on the fitness of the individual for the professional position he or she has selected.

Upon successful completion of the Professional Semester or the Professional Year, a student may apply for Instructional I certification. State certification regulations require that an applicant for a teacher's certificate be known by the preparing institution as a person of good moral character, possessing personal qualities, professional knowledge, and pedagogical competencies which warrant issuance of a teacher's certificate (School Laws of Pennsylvania, Article XII). In addition, all applicants must meet certain physical and medical standards to obtain an Instructional I certificate to teach in the public schools of Pennsylvania.

Anyone applying for a first Instructional Certificate after June 1, 1987 will be required by State Board regulations to pass Pennsylvania Teacher Certification Tests in Basic Skills, General Knowledge, Professional Knowledge, and in the Specialty Area of certification. Some states may also require prospective teachers to take the National Teacher Exams.

Students not majoring in education are invited to register for education courses that carry no prerequisites. For further information, see Dr. Preston Feden, Chair (Olney 254).

#### **Requirements for Major in Secondary Education:**

- EDC 102, 203, 204, 301, 304, 470-471-472
- EDC 218 (required of Comprehensive Social Studies majors)
- Courses designated for associated major (See Education Department brochure and area advisers for specific courses.)

La Salle University offers a program of studies that is approved by the Pennsylvania Department of Education and leads to recommendation for Instructional I certification in Comprehensive Social Studies, Communications (Non-Print media), English, Earth and Space Sciences, Biology, Chemistry, Physics, Mathematics, French, German, Italian, Latin and Spanish. (Foreign language students are certified to teach K-12.) For further information, see Brother Lawrence Colhocker, Director of Secondary Education (Olney 253).

#### **Requirements for Major in Elementary and Special Education:**

- EDC 101, 102, 201, 203, 204, 217, 218, 301, 302, 304, 343, 344, 475-476
- ECN 150, MUS 101, ART 101, HIS 101, 201 or 301

La Salle University offers a unique program of studies that is approved by the Pennsylvania Department of Education and which leads to recommendation for Instructional I certification as an Elementary Educator, a Teacher of the Mentally and/or Physically Handicapped (K-12), or both. The Mentally and/or Physically Handicapped certificate enables successful graduates to teach severely/profoundly, trainable, and educable mentally retarded children; emotionally disturbed children; learning disabled children; physically handicapped children; and brain damaged children. The elementary certificate allows graduates to teach non-handicapped students in grades K-6. All elementary and special education majors must meet with a department faculty member during each preregistration period throughout the entire four-year program. This insures that all students are following the prescribed sequence of courses leading to a degree and to certification.

For further information, see Dr. Robert Vogel, Director of Elementary and Special Education (Olney 255).

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#### **Requirements for Master of Arts in Education:**

See Dr. Gary Clabaugh, Director of Graduate Education (Olney 258).

#### **Requirements for Major in Business Education:**

See chairperson of Education Department (Olney 254).

#### **Religion-Education:**

This program has been designed for those students who wish to teach religion in the secondary school. Since religion is not an accredited subject in any state, no Pennsylvania Instructional Certificate can be issued.

#### **Courses required:**

- EDC 203, 204, 301, 470-471-472
- Courses designated by the Religion Department.

#### **EDC 101 (F, S)**

THE ROLE OF THE DEVELOPMENTALLY-ORIENTED TEACHER

3 credits

A field-based introduction to the various roles teachers play in American education. Reflective teaching experiences. Two hours per week in-field activity.

#### **EDC 102 (F, S)**

FOUNDATIONS OF EDUCATION: A DEVELOPMENTAL PERSPECTIVE

3 credits

Provides a basic understanding of the historical, sociological, political, philosophical, natural scientific and comparative foundations of the schooling process. Also highlights current issues in education and outlines certification practices and procedures.

<b>EDC 201 (F, S)</b> HUMAN EXCEPTIONALITY	<b>CORE II</b> 3 credits
A study of human exceptionality, which is actually a study of being human. Examines methods used to label people, reasons why we label, and effects that labelling may have on a person, all from a multi-disciplinary perspective. Each area of exceptionality is defined and studied in terms of characteristics, causes, prevention, and intervention strategies.	
<b>EDC 203 (F, S)</b> EDUCATIONAL PSYCHOLOGY I: LEARNING AND DEVELOPMENT	<b>CORE II</b> 3 credits
Study of psychological principles as they apply to the pupil in both formal and informal instructional settings. Emphasis on the analysis of human development and learning theory from an educational perspective as well as on the implications of that theory relative to the learner, the learning process, and the instructional environment. Addresses the concerns of teachers and other professionals involved in educational and other human services. Topics: teaching as an art and science; the nature and principles of human development; the cognitive, moral, and social development of the learner; and the nature of behavioral and cognitive learning theories.	
<b>EDC 204 (F, S)</b> EDUCATIONAL PSYCHOLOGY II CURRICULAR AND INSTRUCTIONAL APPLICATIONS	3 credits
Assuming the student's knowledge of human development and learning theory, this course focuses on curricular and instructional applications of that theory. Topics: curricular and instructional design, modes of instruction, the transfer and retention of learning, the motivation of learners, classroom management, individual differences, learners with special characteristics, educational tests and measurements, and the evaluation of student performance. Field experience required (Two hours each week). Prerequisite: EDC 203.	
<b>EDC 217 (F, S)</b> MATHEMATICS FOR TEACHERS	3 credits
A laboratory approach helps the prospective teacher understand how children learn, do, and understand elementary mathematics. Recent research examined to identify strategies that may resolve or prevent difficulties in learning mathematics.	
<b>EDC 218 (F, S)</b> GEOGRAPHY	3 credits
An examination of our earth: explains the planet's physical phenomena, highlights the relationship between people and their environment, and explores the pedagogical uses of this discipline for curriculum development. Required for majors in Comprehensive Social Studies, Elementary and Special Education; open to non-majors.	
<b>EDC 301 (F, S)</b> GENERAL METHODS AND CLASSROOM MANAGEMENT	3 credits
Methods of teaching pupils within the framework of a student-centered rather than a teacher-centered curriculum. Focus on elements of the decision making process such as lesson planning, writing instructional objectives, questioning techniques, concept development, education procedures, and classroom management strategies. Prerequisites: Junior standing and acceptance into candidacy for certification, or permission of chair.	
<b>EDC 302 (F, S)</b> INSTRUCTIONAL MEDIA AND TECHNOLOGY	3 credits
Focuses on helping prospective teachers incorporate the modern technologies of instruction into their classroom practices. Emphasis on the impact of those technologies on human growth and development, and the ways that teachers can most effectively use them to bring about learning. Includes media design and production, still photography, television, and computers.	

**EDC 304 (F, S)****DEVELOPMENTAL READING**

3 credits

Provides an understanding of the developmental nature of the reading process and its relationship to the other language arts. Prerequisites: Junior standing and acceptance into candidacy for certification, or permission of the chair.

**EDC 330 (F, S)****THE EDUCATION OF URBAN POPULATIONS**

3 credits

A multidisciplinary examination of the social, economic, political, and demographic aspects of urban populations as they affect formal education. Identical with POL 330.

**EDC 343 (F, S)****DEVELOPING AND ADJUSTING INSTRUCTION TO MEET THE NEEDS OF****ELEMENTARY AND SPECIAL NEEDS LEARNERS**

3 credits

Designed to help the prospective elementary and special education teacher effectively modify and individualize instruction for children with a wide range of learning needs and at varying levels of development in both academic and non-academic areas. Involves the application of relevant theoretical concepts and principles of educational psychology. In-field tutoring required (Two hours a week). Prerequisites: Junior standing and acceptance into candidacy for certification, or permission of the chair.

**EDC 344 (F, S)****ASSESSING THE LEARNING ABILITIES AND DISABILITIES OF ELEMENTARY****AND SPECIAL NEEDS LEARNERS**

3 credits

Enables prospective teachers to identify learning abilities and disabilities of handicapped and non-handicapped children so that they may develop appropriate instruction that maximizes the probability that learning will occur. Focuses on both process and content areas. Evaluation of outcomes of instruction based on assessment. Field work required (Two hours a week). Prerequisites: Junior standing and acceptance into candidacy for certification, or permission of the chair.

**EDC 470 (S)****THE PROFESSIONAL SEMESTER—STUDENT TEACHING**

9 credits

Provides the secondary education major with full time student teaching experience in a selected junior or senior high school. Under the direction of a certified cooperating teacher and a university supervisor, the student teaches for twelve weeks on a five-day-a-week, full day schedule. The student teaching experience is supplemented by a series of topical seminars. The student is required to make formal application to the student teaching program. Taken concurrently with EDC 471 and 472. Prerequisites: field experiences in education; EDC 102, 203, 204, 301 and 304; and the approval of associated major and education departments.

**EDC 471 (S)****THE PROFESSIONAL SEMESTER—EDUCATIONAL MEDIA**

3 credits

Application of appropriate media formats in educational and instructional settings. Emphasis on media design and production, use of overhead transparencies, still photography, drymounting, audio tapes, multimedia presentations, and television programs. Computers in education will also be examined. Taken concurrently with EDC 470 and 472. Prerequisite: acceptance into EDC 470.

**EDC 472 (S)****THE PROFESSIONAL SEMESTER—SPECIAL METHODS**

3 credits

Topics: historical and current issues related to teaching of the subject, innovative approaches, computer applications, print and non-print materials related to the subject, curriculum developments in the field, issues of human development as they relate to teaching the subject, information resources and data bases in the subject, and teaching of reading and writing in the field.

**EDC 475 (F, S)****THE PROFESSIONAL YEAR—STUDENT TEACHING**

18 credits

Elementary and Special Education majors engage in student teaching under the guidance of experienced teachers and University supervisors over the course of the entire academic year. Exposure to various populations of handicapped and non-handicapped pupils is provided at different practicum sites. Prerequisites include acceptance into candidacy for certification, completion of all courses required for major with a 2.5 average or better, a 2.0 overall index, and approval of the faculty.

**EDC 476 (F, S)****THE PROFESSIONAL YEAR—METHODS**

12 credits

Course modules reflect the seven basic skills of teaching: direct instruction, content areas, child development, material usage, behavior management, instructional planning, and human relations. Special emphasis on the use of direct instruction and behavior management with populations ranging from non-handicapped to severely handicapped children. Taken concurrently with EDC 475. Prerequisite: acceptance into EDC 475.

**ENGLISH**JAMES A BUTLER, Ph.D., *Chair*ROBERT T FALLOON, Ph.D., *Acting Chair (Fall, 1987)*

Professors: Burke, Butler, Ellis, Fallon, Keenan, Koch, Millard, Seydow

Associate Professors: Doran, Haberstroh, Hannum, Harty, Kleis, Lautz, Mollenhauer, Musil, Newton, Soven

Assistant Professors: Allen, Foote, Kling, Merians, Rao, Smith

Lecturers: Meredith, Zenner

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**FOUNDATION COURSES (Writing)****ENG 107 (F, S)****COLLEGE WRITING I**

3 credits

Instruction in the writing process, in invention, and in necessary grammatical and organizational skills. Emphasis on writing from personal experience.

**ENG 108 (F, S)****COLLEGE WRITING II**

3 credits

Instruction in planning and executing writing assignments common to all disciplines. Emphasis on essays about readings and on the library paper. Prerequisite: ENG 107 or waiver of it.

**FOUNDATION COURSE (Literature)****ENG 150 (F, S)****THE LITERARY EXPERIENCE**

3 credits

Reading, analysis, and discussion of the three prominent forms of literary expression—drama, poetry, and prose fiction—with attention to the cultural context of works written from the ancient world to the present. Short critical papers, some requiring use of secondary sources.

**CORE COURSES****Approved sequences for Core I:**

*First course: ENG 160, 165, or 166. Second course: ENG 201, 202, or 203. Third course: If you took 201, select one from 313, 320, 321, 335, 341, 343, 422, 423, 426, 427, 429, 430, 432. If you took 202, select one from 312, 324, 355, 343, 424, 432. If you took 203, select one from 311, 335, 342, 343, 428, 432, 435.*

**Approved courses for Core II:**

*ENG 160, 165, 166, 201, 202, 203. You may choose one or two English courses to fulfill your Core II requirement.*

**Required for Major in English:** 15 courses (Dual Majors: 10 courses)

English majors may choose one of several "majors within the major": (1) Liberal Arts; (2) English-Education; (3) Writing; (4) Dual Majors, e.g., English-Accounting, English-Biology, English-Psychology. English majors may intern at advertising, public relations, publishing, and newspaper positions. See course description under ENG 461 for requirements.

The usual requirements for each program are as follows: (Exceptions require the approval of the chair or assistant chair.)

- **Liberal Arts:** ENG 150; 201; 202; either 311 or 312 or 313; 320; 321; either 341 or 342 or 343; three period courses (choices include 422, 423, 426 through 432); 424; either 301 or 304 or 411 or 412; three English electives (not to include 107, 108, or more than one 160-level course).
- **English-Education:** ENG 201; 202; 203; 300; 304; 315; 320; 321; either 324 or 424; two American literature courses (choices include 341, 342, 343); either 352 or 354; one advanced writing course (choices include 205, 207, 303, 305, 306, 307, 308, COM 206). EDC 102, 203, 204, 301, 304, 470-472.
- **Writing:** ENG 150; either 201 or 202 or 203; 205; 320; 321; 311 or 312 or 313; 424; either 302 or 304, either 341 or 342 or 343; four writing courses (choices include ENG 207, 303, 305, 306, 307, 308, 309, 310, 461; COM 206, 302 or 303, 401). Two English electives (not to include 107, 108, or more than one 160-level course).
- **Dual Major:** Individual program to be worked out in consultation with chair or assistant chair.

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**ENG 160 (F, S)**

LITERATURE AND THE SEXES

**CORE I, II**

3 credits

Examines literature as a reflection of the different ways women and men are shaped by their society and of the ways they have related to each other in the private and public spheres. Short critical papers.

**ENG 165 (F, S)**

LITERATURE AND SOCIETY

**CORE I, II**

3 credits

Fiction, poetry, and drama considered as reflections of a particular social and political environment. The relationship between the art work and the intellectual and cultural background that produced it. Short critical papers.

**ENG 166 (F, S)**

AMERICAN DREAMS AND AMERICAN NIGHTMARES

**CORE I, II**

3 credits

A study of the literary expression of the pioneer "dreams" of progress and freedom, and the "nightmares" they became in the face of war, poverty, discrimination, and industrial and technological revolutions. Readings include fiction, poetry, and drama. Short critical papers.

**ENG 201 (F, S)**

THE EXPERIENCE OF POETRY

**CORE I, II**

3 credits

A study of the uses of language in English poetry—meter, metaphor, symbol, and other linguistic features—and of the major conventional forms of English poetry.

**ENG 202 (F, S)**

THE EXPERIENCE OF DRAMA

**CORE I, II**

3 credits

A study of the development of the dramatic arts of comedy and tragedy from the ritual drama of Greece to the realism and naturalism of the 20th Century.

**ENG 203 (F, S)**

THE EXPERIENCE OF PROSE FICTION

**CORE I, II**

3 credits

Reading, analysis, and discussion of prose fiction.

**ENG 205 (F, S)**

HOW A WRITER WORKS

3 credits

A course that permits students to develop talent in various kinds of writing: essays, articles, reviews. Attention to a writer's methods and resources. Prerequisite: ENG 108.

<b>ENG 207 (F, S)</b> CREATIVE WRITING I	3 credits
Workshop in the writing of fiction and verse. Prerequisite: ENG 205 or permission of instructor.	
<b>ENG 243 (F 1987)</b> RELIGIOUS ATTITUDES IN MODERN LITERATURE	3 credits
Identical with REL 243.	
<b>ENG 300 (S)</b> UNDERSTANDING THE WRITING PROCESS	3 credits
Students examine their own writing process in the light of discussion of readings on topics such as: how writing connects with thinking; how proficient writers discover ideas, plan messages, and revise them; how the writing process changes in the world of work; how to supervise or instruct others in writing.	
<b>ENG 301 (S 1988, F 1989)</b> HISTORY OF THE ENGLISH LANGUAGE	3 credits
Development of modern English from Old and Middle English; dialects and dialect geography.	
<b>ENG 302 (210) (S)</b> LANGUAGE AND PREJUDICE	3 credits
A study of how language affects the way we view ourselves and others in our culture. Case studies of language in relation to sexism, racism, and politics, supplemented by introductory concepts of language systems and stylistic analysis.	
<b>ENG 303 (208) (F, S)</b> WRITING FOR BUSINESS	3 credits
Provides instruction in planning and executing effective business writing. Students learn to write the documents required of them as professionals: letters, resumes, memos, proposals, abstracts, and reports. Prerequisites: ENG 108, junior or senior status.	
<b>ENG 304 (F)</b> THE GRAMMARS OF ENGLISH	3 credits
History of the English language and introduction to modern linguistic systems (traditional, structural, transformational) as applicable to selected secondary school grammar texts.	
<b>ENG 305-306 (F, S)</b> CREATIVE WRITING II, III	3 credits
Workshops in the writing of fiction and verse. Prerequisites: ENG 207 and permission of the instructor.	
<b>ENG 307 (S 1989)</b> PLAYWRITING	3 credits
Study of the art of playwright from the traditional and contemporary point of view. Guided writing of a one-act play.	
<b>ENG 308 (F)</b> PROFESSIONAL WRITING I	3 credits
Directed practice in writing feature articles, speeches, public relations materials, advertisements, pamphlets, and brochures. Intended for students interested in careers as professional writers for business and industry, either in an in-company or freelance basis. Prerequisite: ENG 205 or permission of instructor.	
<b>ENG 309 (S)</b> PROFESSIONAL WRITING II: TECHNICAL AND SCIENTIFIC	3 credits
Directed practice in writing technical reports, feasibility studies, proposals, abstracts, oral report outlines, and in using technical reference materials. Intended for students interested in improving writing in technical and scientific fields.	
<b>ENG 310 (S 1988, S 1990)</b> EDITING AND PUBLISHING	3 credits
Workshop approach to provide students with experience in judging manuscripts, editing copy, proofreading, typographical design, and production. Introduction to desktop publishing. Some field trips to printing and graphic arts centers. Guest lectures by practicing professionals.	

ENG 311 (S) CONTEMPORARY BRITISH AND AMERICAN NOVEL Selected major novelists of the 20th Century in England and America. Structure and trends.	CORE 1 3 credits
ENG 312 (F) READINGS IN MODERN DRAMA Selected plays of the modern theatre from Ibsen to Ionesco and other contemporary dramatists.	CORE 1 3 credits
ENG 313 (F) CONTEMPORARY POETRY An examination of representative 20th century poetic practice in English.	CORE 1 3 credits
ENG 315 (215) (F) YOUNG ADULT LITERATURE Aimed at preparing prospective and actual teachers, librarians, and parents to understand and to direct the reading of young adults. Attention will be paid to the reading and discussion of contemporary young adult fiction representing a variety of themes and genres. Other topics include adolescent psychology, the history and development of young adult literature, current trends in young adult literature, and the young adult in film and other mass media.	3 credits
ENG 320-321 (221-222) (F, S) THE LITERATURE OF ENGLAND Survey course in English literature showing development in types and forms. Fall: <i>Beowulf</i> to Blake. Spring: since 1800.	CORE 1 3-6 credits
ENG 324 (225) (F, S) SHAKESPEARE'S ART AND TIMES Readings in Shakespeare's plays, emphasizing his success as a writer for the stage. Some consideration of the cultural background. A course designed with the non-English major in mind.	CORE 1 3 credits
ENG 335 (204) (F, S) WOMEN WRITERS This course examines women's literary tradition by surveying works of women writers from several historical periods.	CORE 1 3 credits
ENG 341 (F) AMERICAN LITERATURE (to 1860) Literary historical movements of the period; major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman.	CORE 1 3 credits
ENG 342 (S) AMERICAN LITERATURE (1860-1900) Rise of realism; naturalism. Figures include Whitman, Twain, Dickinson, Howells, James, Chopin, Crane, and Dreiser.	CORE 1 3 credits
ENG 343 (F, S) AMERICAN LITERATURE: 20th CENTURY Figures include: Hemingway, O'Neill, Fitzgerald, Faulkner, Frost, Eliot, Steinbeck, Porter, Welty, O'Connor, Ellison, Malamud, and Bellow.	CORE 1 3 credits
ENG 350-351 (250-251) (F 1987, F 1989) DRAMA WORKSHOP Theory and practice in the arts of acting and directing for the theatre; brief historical perspectives and graduated individual and/or group work on speeches and scenes; specific assignments and projects designed to meet the needs of the beginning or advanced student. May be repeated for credit.	3 credits
ENG 352 (252) (F 1988, F 1990) ORAL INTERPRETATION OF PROSE AND POETRY Theory and practice in the training of the speaking voice for the demands of reading aloud; graduated work in the preparation, interpretation, and public performance of literary and dramatic works.	3 credits

ENG 354 (254) (F, S) ORAL COMMUNICATION Speech composition, audience psychology, and technique of delivery; emphasis on practical speaking experience.	3 credits
ENG 355 (255) (S 1988, S 1990) THEATRE NOW Study of genres and trends in contemporary theatre.	<b>CORE I</b> 3 credits
ENG 411 (401) (S) LITERARY THEORY AND CRITICISM An introduction to the theory of literary structure and literary value; exercises in the description and evaluation of literary works; reports on assigned readings.	3 credits
ENG 412 (402) (F) HISTORY OF LITERARY CRITICISM Readings and discussion of major critical texts in historical setting. Short critical papers.	3 credits
ENG 422 (322) (F 1987, S 1989) CHAUCER AND HIS WORLD Readings in <i>The Canterbury Tales</i> : short selections from medieval drama, romance, and allegory.	<b>CORE I</b> 3 credits
ENG 423 (323) (F 1988) RENAISSANCE LITERATURE The intellectual, political, religious, and scientific ferment that accompanied the birth of Humanism and the death of Medieval order as expressed in the works of More, Machiavelli, Shakespeare, Donne, Bacon, and Milton.	<b>CORE I</b> 3 credits
ENG 424 (325) (F, S) SHAKESPEARE Intensive study of selected poems and plays, including tragedies, comedies, and chronicles, exploring the dramatic, literary, and historical dimensions of his art.	<b>CORE I</b> 3 credits
ENG 426 (326) (S 1990) MILTON IN AN AGE OF REVOLUTION The works of the great English poet as they reflect the conflicting values of the Renaissance and Reformation, presented against a backdrop of Civil War and the short-lived English Republic.	<b>CORE I</b> 3 credits
ENG 427 (327) (F 1987, S 1989) ENGLISH LITERATURE OF THE RESTORATION AND 18th CENTURY The historical approach will include the chief figures: Dryden, Pope, Swift, Addison and Steele, Johnson, and their more outstanding contemporaries.	<b>CORE I</b> 3 credits
ENG 428 (328) (S 1988, F 1989) THE ENGLISH NOVEL TO 1900 The roots of modern fiction. Historical development of the novel from Defoe to Hardy. Analysis of structures and themes.	<b>CORE I</b> 3 credits
ENG 429 (329) (F 1987, S 1989) ENGLISH LITERATURE OF THE ROMANTIC PERIOD An historical survey of the lyric and narrative poets Coleridge, Wordsworth, Byron, Shelley, Keats; their practice and theory. Pertinent references to their contemporaries.	<b>CORE I</b> 3 credits
ENG 430 (330) (F 1988, S 1990) ENGLISH LITERATURE OF THE VICTORIAN PERIOD The chief literary figures of the period—Tennyson, Arnold, Browning, Hopkins, Carlyle, Newman, Ruskin—and their contemporaries placed against their milieu. Lyric and essay stressed.	<b>CORE I</b> 3 credits
ENG 432 (332) (S 1988, F 1989) MODERN BRITISH LITERATURE Beginning with Shaw and Yeats and covering the major figures up to the present. Drama, fiction, poetry with some attention to the cultural, social, and artistic influences.	<b>CORE I</b> 3 credits

**ENG 435 (314) (F 1988, S 1990)**  
WOMEN, LITERATURE, AND CULTURE

**CORE I**  
3 credits

A study of feminist literary theory and an application of feminist literary criticism to a major writer, coterie, movement, or era.

**ENG 461 (F, S)**  
INTERNSHIP

3 credits

Students may intern at advertising, public relations, publishing and broadcasting companies. Working approximately 15 hours a week under professional supervision, they learn how to apply their education to the everyday demands of these positions. Required: Junior or senior standing, 2.75 grade point average, and recommendation of the internship coordinator, Professor John Keenan.

**ENG 462 (F, S)**  
INTERNSHIP

6 credits

Intern will work approximately 25-30 hours each week.

## FINE ARTS

THOMAS M RIDINGTON, M.F.A., Chair

Professor: Diehl

Associate Professor: White

Assistant Professors: Hanes, Lang, Ridington

Director, *Collegium Musicum*: Woods

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## CORE COURSES

### Approved sequences for Core I:

Asian concentration (ART 101, 207, 308).  
Architecture concentration (ART 101, 204, 304).  
Art History concentration (ART 101, 209, and either 309 or 310).

### Approved courses for Core II:

ART 101, 204, 206, 207, 209, 304, 308, 309, 310. You may choose one or two Art courses to fulfill your Core II requirement.

### Required for Major in Art History: 13 courses

- ART 151-152, 311, 312, 313, 315, 317, 319, 470
- Any two studio courses. (Additional studio courses available at Chestnut Hill College.)
- Two art history electives

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in art history. Those anticipating graduate work are also advised to select courses in German, French, Italian, Latin, and Greek as preparation for advanced studies. The art history major is to consider ART 151-152 as prerequisite for other art history courses.

## ART

**ART 101 (F, S)**  
ELEMENTS OF ART

**CORE I, II**  
3 credits

Analysis of the basic elements of painting, sculpture and architecture, techniques involved and materials utilized. Concentration of compositional analysis of a painting to result in a critical paper. Introduction to major stylistic periods in the Western Tradition.

## ART HISTORY

*For the general student, courses in art history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.*

**ART 151-152 (F, S)**

3-6 credits

**HISTORY OF ART**

Chronological survey of the painting, sculpture, architecture, and minor arts of World Cultures with special emphasis on Western civilization. Determination and recognition of styles and stylistic development through concentrated study of the outstanding monuments of each epoch. Fall term: beginnings to 1400. Spring term: 1400 to present.

**ART 204****CORE I, II****HISTORY OF ARCHITECTURE**

3 credits

Chronological study of the growth and development of the major architectural styles in Western Europe, their interrelation and the manner in which they reflect the social needs of the times. Overview of world architecture.

**ART 206****CORE II****PAINTING FROM DAVID TO VAN GOGH**

3 credits

Study of the stylistic changes and examination of the methods and subject-matter of pictorial representation from the end of the 18th century to the end of the 19th century.

**ART 207****CORE I, II****ASIAN ART**

3 credits

Explores the evolution of the visual arts in India, Sri Lanka and Southeast Asia from early history to modern times. Navigating the course of art and culture along the historic Spice Route as Indian merchants, monks, and artisans followed the lure of precious metals and spices to exotic Southeast Asia.

**ART 209****CORE I, II****AMERICAN ART**

3 credits

Chronological survey of the painting, sculpture, architecture, and the minor arts in America from colonial times to the present. Particular emphasis on monuments in the Philadelphia area with field trips to include the du Pont Winterthur Museum.

**ART 304****CORE I, II****HISTORY OF AMERICAN ARCHITECTURE**

3 credits

Study of ethnic diversity in the creation of architectural traditions in the New World. Building techniques, developments, innovations. Historical development studied in light of changes in technology, industrialization, urban concentrations and human needs.

**ART 308****CORE I, II****THE ARTISTIC GLORY OF CHINA AND JAPAN**

3 credits

A study of the visual splendor of Chinese art and culture from the Early Bronze Age to the Cultural Revolution of the 20th century. An examination of the golden ages of visual arts and dynamic creativity that brought Japan to high international status in the 20th century.

**ART 309****CORE I, II****ROME—THE POLITICS OF ART**

3 credits

The beginning of art as a political tool with multiple meaning and content seen in the painting, sculpture and architecture of Rome. Classical versus non-classical as concepts developing from ancient times through the Renaissance to the present. Field trips to buildings of architectural relevance and museums in the area.

**ART 310****CORE I, II****PARIS—ART AND RELIGION**

3 credits

French art from the fall of Rome to the 19th century emphasizing art forms of Northern Europe in cathedral building and palace construction. The illuminated manuscript, the development of panel painting and graphic art. Development of systems for evaluation and techniques for critical evaluation. Field trips to appropriate buildings and museums in the area.

**ART 311**  
ANCIENT ART

3 credits

Study of selected early civilizations which contributed to the growth of western tradition in the arts. Concentrated study of the artistic development of the major Mediterranean cultures, terminating with the early Christian era of the fourth century.

**ART 312**  
MEDIEVAL ART

3 credits

Chronological study of the eastern and western aspects of Pagan and Christian art from the late Imperial Roman period to the decline of the Gothic tradition in the 15th century.

**ART 313**  
THE RENAISSANCE IN ITALY

3 credits

A study of the civilization of the Renaissance with concentration on the architecture, painting, and sculpture of Italy between 1200 and 1550. Stress will be on the works of Giotto, Bramante, Michelangelo, Raphael, Leonardo da Vinci, and Titian.

**ART 315 (F)**  
BAROQUE AND ROCOCO ART

3 credits

Styles, trends, and major forces in the arts of Western Europe in the 17th and 18th centuries. Baroque splendors from the Baldacchino of Bernini to the Palace of the Sun King. Rococo delights from the Bishop's Palace at Würzburg to the churches of Vierzehnheiligen and Wies.

**ART 317**  
NINETEENTH CENTURY ART

3 credits

A study of the major artistic forces in selected European countries in light of the Social and Industrial Revolutions. Focus on new forms, materials, and techniques.

**ART 319**  
TWENTIETH CENTURY ART

3 credits

A tracing of the divergent influences upon contemporary art in Europe and America from the late 19th century beginnings to the immediate present.

**ART 377 (S)**  
HISTORY OF GRAPHIC ART

3 credits

Chronological examination of graphic art from its inception in the 15th century to the present. Examination of original prints from the resources of the La Salle Study Collection and the Philadelphia Museum of Art. Prerequisite: permission of instructor. Written research project.

**ART 470**  
RESEARCH TOPICS IN ART HISTORY

3 credits

Topics vary from semester to semester. Required of art history major and open to the qualified general student. Prerequisites: junior standing and permission of instructor.

**STUDIO COURSES****ART 350 (F, S)**  
OIL PAINTING

3 credits

Introduction to basic techniques of painting, drawing, and perspective. Preparation of canvas and media. Exercises in indoor and outdoor painting. May be repeated for credit.

**ART 352 (F, S)**  
PRINT MAKING

3 credits

Introduction to basic print processes. Relief, intaglio, collograph printing, followed by mixed-media projects. Experimentation encouraged. May be repeated for credit.

**CORE COURSES****Approved sequences for Core I:**

Master Composers concentration (MUS 101, 204, 304). *Instrumental Music* concentration (MUS 101, 205, 305).

**Approved courses for Core II:**

MUS 101, 203, 204, 205, 304, 305. You may choose one or two courses in music to fulfill your Core II requirement.

**Required for Major in Music: 12 courses**

- In Music History: Six courses from the Music History section.
- In Theory and Composition: MUS 105, 106, 214-215, 225, 301.

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in music. Those anticipating graduate work in musicology are also advised to elect courses in German, French, Italian, Latin and Greek as preparation for advanced studies.

The music major is expected to demonstrate a basic keyboard facility. It is desirable that such facility be achieved before entering the program or acquired through private study in the early stages of the program. Further, the music major is to adhere to the following establishment of prerequisites: MUS 105 and 106 as prerequisite for other courses in theory and composition. Students who feel qualified to take a placement examination in MUS 105 and 106 may arrange to do so. Any required theory courses not given at La Salle are taken at Chestnut Hill College.

**MUSIC HISTORY**

*For the general student, courses in music history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.*

**MUS 101 (F, S)****THE ART OF LISTENING****CORE I, II**

3 credits

An exploration of the ways and means of musical composition as a denominator for experiencing music from different time periods and cultures. Popular and classical music, American and European, old and new.

**MUS 110****JAZZ**

3 credits

The evolution of jazz as a style and form, including Dixieland, Ragtime, Swing, Boogie, Bop, Cool, Funky and recent jazz-rock innovations.

**MUS 201****ANATOMY OF THE OPERA**

3 credits

Concentrated study of selected works representing the stylistic and historical development of the opera. *Orpheus*, *Marriage of Figaro*, *Carmen*, *Otello*, *Porgy and Bess*.

**MUS 203 (102)****AMERICA'S MUSIC****CORE II**

3 credits

From Plymouth Rock to Woodstock— the cultivated and vernacular traditions in American music. New England psalmody, the Yankee tunesmiths, the camp meetings, minstrelsy, the rise of musical culture in the 19th century, the popular and classical music of the 20th century.

**MUS 204****MASTER COMPOSERS. THE CLASSICISTS AND THE ROMANTICISTS****CORE I, II**

3 credits

The Classical style of Haydn, Mozart, and Beethoven. The Romantic Movement in Germany, France, and Italy. Major Works, principal forms, evolving concepts.

<b>MUS 205</b> MINIATURES IN JAZZ AND THE CLASSICS	<b>CORE I, II</b> 3 credits
An exploration of the chamber music medium in both popular and classical styles. Improvisational and non-improvisational approaches. The different social backgrounds of the two principal areas. The likenesses and the differences of the musical end-results.	
<b>MUS 211 (F)</b> EIGHTEENTH CENTURY CLASSICAL MUSIC	3 credits
The development of the classical style in Western European music from the age of the rococo to the time of Beethoven, with special emphasis upon the contributions of Haydn and Mozart.	
<b>MUS 212 (S)</b> NINETEENTH CENTURY ROMANTIC MUSIC	3 credits
A study of 19th-century developments in music. The symphonic poem, art-song, and music-drama. Expansion of instrumental technique; development of orchestral and chamber music forms; growth of nationalism.	
<b>MUS 213 (S)</b> TWENTIETH CENTURY MUSICAL REVOLUTIONS	3 credits
The emergence of new developments in musical composition in the 20th century. Examination of techniques and styles from impressionism to electronic music.	
<b>MUS 221</b> TOPICS IN THE HISTORY OF MUSIC	3 credits
Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.	
<b>72</b>	
<b>MUS 304</b> MASTER COMPOSERS: THE IMPRESSIONISTS AND THE MODERNS	<b>CORE I, II</b> 3 credits
The cross-pollination of poetry, art, and music leading to the impressionistic style of Claude Debussy. The spirit of artistic revolutions in the 20th century that produced the major changes in music in our own time.	
<b>MUS 305 (206)</b> THE SYMPHONY	<b>CORE I, II</b> 3 credits
An examination of the development of one of the musical world's most widely cultivated forms. The growth of the orchestra and orchestral instruments from simple ensembles of the eighteenth century to the mammoth post-romantic orchestra of the late nineteenth and early twentieth centuries. The emergence of the conductor. Masterworks of principal European and American composers.	
<b>MUS 311 (F)</b> EARLY MUSIC	3 credits
The evolution of sacred and secular music from the early Christian church to the time of Bach. The great periods of vocal music, the creation of new forms, and the development of dramatic and instrumental music.	
<b>THEORY and COMPOSITION</b>	
<i>For the general student, courses in theory and composition do not carry prerequisites; however, the general student who has not had MUS 105 and 106 is advised to use discretion in the selection of other theory and composition courses.</i>	
<b>MUS 105 (F)</b> FUNDAMENTALS OF MUSIC THEORY	3 credits
Introduction to the basic theoretical concepts of music: staff notation, calligraphy, scales, key signatures, intervals, chords, rhythm. Elementary ear training stressing the ability to take melodic and rhythmic dictation and to sing a simple melody at sight. No prior knowledge of music necessary.	

**MUS 106 (S)****THEORY IN PRACTICE**

3 credits

Creative implementation of the theoretical foundations and principles of musical structures. Prerequisite: ability to read music or permission of instructor.

**MUS 214-215 (F, S)****HARMONY**

3-6 credits

Fall: Basic elements of harmony as found in tonal music: chord succession, voice leading, non-harmonic tones, figured bass. Spring: Stylistic analysis of representative works from the baroque through the romantic period, concentrating on the evolution of harmonic language. Creative work in imitation of each style studied. Open to the general student with permission of instructor.

**MUS 216****TOPICS IN THE THEORY OF MUSIC**

3 credits

Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

**MUS 218****INTRODUCTION TO ELECTRONIC MUSIC SYNTHESIS**

3 credits

An introduction to the development and application of electronic music from Pierre Schaeffer to Philip Glass. Analog and FM Digital synthesis will be studied.

**MUS 225 (F)****ORCHESTRATION**

3 credits

A study of the properties, capacities, and functions of orchestral instruments and voices. Analysis of scores and practices of orchestration.

**MUS 301 (S)****COUNTERPOINT**

3 credits

Principles and techniques of linear writing. Introduction to canon and fugue. Exercises in construction on progressive levels. Open to the general student with permission of instructor.

**APPLIED MUSIC****MUS 151**

1 credit

Available to the general student as well as the music major in accordance with the conditions stated below.

Students applying for academic credit for study of an instrument (limited to keyboard, classical guitar, and all instruments of the standard symphony orchestra) or voice must demonstrate the ability to undertake such study at least at an intermediate level. Arrangements to work with a teacher of the applicant's choice and the financial obligations for such study are the responsibility of the student. At the close of the semester in which the student is applying for credit, the teacher will submit a written report on the student's progress. The student will demonstrate his or her accomplishment in a proficiency performance arranged by the department and will be graded on a credit/no credit basis. Upon successful demonstration of achievement the student will receive one academic credit, which will count as elective credit and will not be counted toward the major. A permissible total of six credits will be allowed.

Students wishing to apply for applied music credit may register for MUS 151 upon approval of the department.

**Collegium Musicum**

A vocal and instrumental performing ensemble devoted to the study of musical repertory of all periods which is designed for small groups.

## FOREIGN LANGUAGES AND LITERATURES

BERNHARDT G. BLUMENTHAL, Ph.D., Chair

Professors: Blumenthal, Boudreau, Brownstein, Rudnytzky

Associate Professors: DiMarco, Mall, McCann,

Morocco, Perfekcy

Assistant Professor: Angerosa

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### FOUNDATION COURSE

#### LIT 150

#### MODERN EUROPEAN AND LATIN

AMERICAN WRITERS

3 credits

An examination of modern French, German, Hispanic, Italian and Russian literatures in English translation. A study of attempts by representative men and women to comprehend their times and their cultures and to provide literary expression to their understandings of modern life. Selected works of prose, poetry and drama. Short critical papers.

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### CORE COURSES

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#### Approved Language sequences for Core I:

Language 101, 102, 201. Language 201, 202, 301. Language 301, 302, 300-400 level. The sequence you will follow depends upon your initial placement according to your previous language training.

#### Approved Language options for Core II:

Language 201, 202 or Language 301, 302.

#### Approved Literature sequences in Foreign Literatures for Core I:

French 311, 312, and one from FRN 411, 425, 431, 447, 453, 455, 457. German 311, 312, and one from GER 405, 411, 421, 431, 441, 451, 480, 481. Italian 311, 312, and one from ITL 331, 332, 451, 480, 481. Spanish 311, 312, and one from SPN 313, 405, 411, 415, 419, 442, 443, 448, 457, 480. To follow one of these sequences, you must have a good reading knowledge of the language.

#### Approved Literature options in Foreign Literatures for Core II:

FRN 311, 312; GER 311, 312; ITL 311, 312; or SPN 311, 312.

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Description of major programs follows; for dual majors, greater flexibility in individual programs can be arranged in consultation with departmental adviser.

### CLASSICAL LANGUAGES

#### Required for Major in Classical Languages: 14 courses

- Ten courses in Latin
- Four courses in Greek

### GREEK

#### GRK 101-102

#### ELEMENTARY GREEK

An introductory study of forms and syntax; includes reading and translation exercises and frequent practice in prose composition.

#### CORE I

3-6 credits

**GRK 201-202**

INTERMEDIATE GREEK

Review of elementary grammar; readings of selected prose and poetry.

**CORE I, II**

3-6 credits

**GRK 301-302**

GREEK READINGS

Readings selected to meet the individual needs of the students from Homer, lyric poetry, the Greek New Testament, Plato and the drama. May be repeated for credit.

**CORE I, II**

3-6 credits

**LATIN****LAT 101-102**

ELEMENTARY LATIN

Thorough grounding in forms and vocabulary.

**CORE I**

3-6 credits

**LAT 111-112**

BASIC REVIEW

Intensive review of Latin fundamentals, together with basic graded readings.

**CORE I, II**

3-6 credits

**LAT 201-202**

INTERMEDIATE LATIN

Review of elementary grammar; readings of selected prose and poetry.

**LAT 301-302**

LATIN READINGS

Readings selected to meet the individual needs of the students from Cicero, Livy, Horace, Vergil, Catullus, Ovid, Martial, patristic Latin, medieval Latin, Roman comedy and Latin inscriptions. May be repeated for credit.

**75****RELATED STUDIES:****CLS 211 (F)**

CLASSICAL MYTHOLOGY

3 credits

A study of the legends of Greece and Rome: what they are, how they have survived, their value to us. The legend of Troy emphasized. Audio-visual presentations, discussions, and research. All readings in English.

**CLS 212 (S)**

CLASSICAL DRAMA

3 credits

Greek and Roman tragedies and comedies in English translation discussed and interpreted in their historical and social environment and compared to modern and contemporary drama. No previous knowledge of Greek and Latin is required.

**CLS 311 (F)**

GREEK MASTERPIECES IN ENGLISH

3 credits

Some significant works in Greek literature read in English translation and interpreted in terms of their original setting. Application made to contemporary problems. No knowledge of Greek required.

**CLS 312 (S)**

LATIN MASTERPIECES IN ENGLISH

3 credits

The more important works in Latin literature read and discussed in terms of the history of the times. Their influence on later literature noted. No knowledge of Latin required.

## MODERN LANGUAGES

### FRENCH

#### Required for Major in French: 14 courses

- Ten French courses (two from 400 list)
- Four courses in second language

#### FRN 101-102

##### ELEMENTARY FRENCH

**CORE I**

3-6 credits

A study of the phonetics and grammar of French with graded work in reading, oral practice, and composition. One required hour per week in the Language Laboratory.

#### FRN 201-202

##### INTERMEDIATE FRENCH

**CORE I, II**

3-6 credits

Review exercises in comprehending, speaking, reading and writing French. Cultural information on France. Weekly assignments in the Language Laboratory.

#### FRN 301-302

##### STRUCTURE AND STYLE

**CORE I, II**

3-6 credits

Review of grammatical principles and their practical application in written exercises and in the translation of standard English prose into French.

#### FRN 303-304

##### CONVERSATION AND COMPOSITION

3-6 credits

Oral and written practice aimed at providing students with varied experiences in communicating in French while improving their pronunciation, intonation, and fluency.

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#### FRN 311-312

##### SURVEY OF FRENCH LITERATURE

**CORE I, II**

3-6 credits

Readings and discussions in French of selected literary works from the beginnings to 1800 and from 1800 to the present.

#### FRN 321-322

##### CIVILIZATION

3-6 credits

The first semester treats the political, social, intellectual, and artistic developments in France from earliest times to 1870, while the second semester emphasizes these cultural structures as they exist in contemporary French society. Lectures and readings serve as a basis for class discussion in French.

#### FRN 401 (S)

##### OLD FRENCH LANGUAGE AND LITERATURE

3 credits

The history of the formation of the French language, with special attention to the phonological and morphological development from Latin. Literary study, using texts in the original, of Alexis, Roland, Guigemar, Aucassin, Vergi, and the poetry of Villon.

#### FRN 411 (F, S)

##### SIXTEENTH-CENTURY LITERATURE

**CORE I**

3 credits

Readings and reports on works of representative authors of the 16th century.

#### FRN 425 (F, S)

##### CLASSICAL THEATRE

**CORE I**

3 credits

A study of the plays of Corneille, Moliere, and Racine.

#### FRN 431 (F, S)

##### EIGHTEENTH-CENTURY LITERATURE

**CORE I**

3 credits

Readings and reports on works of representative authors of the 18th century.

#### FRN 447 (F, S)

##### NINETEENTH-CENTURY NOVEL

**CORE I**

3 credits

A study of some of the major novels of the 19th century, including works by Constant, Stendhal, Balzac, Flaubert, Zola, and Huysmans.

<b>FRN 453 (F, S)</b> MODERN POETRY	A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present.	<b>CORE I</b> 3 credits
<b>FRN 455 (F, S)</b> MODERN THEATRE	A study of the plays of Claudel, Cocteau, Giraudoux, Anouilh, Montherlant, Sartre, Camus, Beckett, Ionesco, and Genet.	<b>CORE I</b> 3 credits
<b>FRN 457 (F, S)</b> MODERN NOVEL	A study of the novels of Proust, Gide, Bernanos, Malraux, Sartre, Camus, and Robbe-Grillet.	<b>CORE I</b> 3 credits

## GERMAN

### Required for Major in German: 14 courses

- GER 401, 431, 480 or 481
- Seven electives in German
- Four courses in second language

<b>GER 101-102</b> ELEMENTARY GERMAN	An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Weekly audio-oral laboratory assignments.	<b>CORE I</b> 3-6 credits
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<b>GER 201-202</b> INTERMEDIATE GERMAN	Review exercises in comprehending, speaking, reading and writing German. Cultural information on German-speaking countries. Weekly assignments in the Language Laboratory.	<b>CORE I, II</b> 3-6 credits
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<b>GER 209-210 (S)</b> TRANSLATION OF SCIENTIFIC AND TECHNICAL GERMAN	Translation of selected scientific and technical articles from contemporary journals in bio-medicine, chemistry, geology, computer science, and physics. Emphasis on the practical aspects of translating; training in use of specialized dictionaries and reference sources.	3 credits
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<b>GER 301-302</b> CONVERSATION AND COMPOSITION	Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction.	<b>CORE I, II</b> 3-6 credits
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<b>GER 311-312</b> THEMES IN GERMAN LITERATURE	Major themes from medieval to modern times (love, death, suffering, political, and social involvement). Practice in conversation and composition. May be repeated for credit. Readings and discussions in German.	<b>CORE I, II</b> 3-6 credits
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<b>GER 320 (F, S)</b> STUDIES IN GERMAN CULTURE	Analysis of the contemporary culture of the two Germanies: life styles, national characteristics, folk tradition. Emphasis on the Germans' view of themselves, their view of their recent past. Focus varies from semester to semester. May be repeated for credit.	3 credits
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<b>GER 401 (F)</b> HISTORY OF THE GERMAN LANGUAGE	The German language from its beginning to the present: particularly, the development of sounds, vocabulary, and the formation of standard High German.	3 credits
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<b>GER 405 (F, S)</b> MEDIEVAL LITERATURE	<b>CORE I</b> 3 credits
Study and discussion of German literature from its beginnings to the end of the medieval period.	
<b>GER 411 (F, S)</b> LITERATURE OF THE 15th AND 16th CENTURIES	<b>CORE I</b> 3 credits
Study and discussion of the literature of the 15th and 16th centuries from the end of the medieval period to the beginnings of the baroque.	
<b>GER 421 (F, S)</b> LITERATURE OF THE 17th AND 18th CENTURIES	<b>CORE I</b> 3 credits
Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller.	
<b>GER 431 (F, S)</b> THE CLASSICAL AGE	<b>CORE I</b> 3 credits
Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller.	
<b>GER 441 (F, S)</b> LITERATURE OF THE 19th CENTURY	<b>CORE I</b> 3 credits
Study and discussion of the literature of romanticism, realism, and naturalism.	
<b>GER 451 (F, S)</b> LITERATURE OF THE 20th CENTURY	<b>CORE I</b> 3 credits
Study and discussion of modern German literature from 1880 to the present.	

<b>78</b>	<b>GER 480-481</b> SEMINAR	<b>CORE I</b> 3-6 credits
	Topics of investigation vary from semester to semester. Readings, reports, and discussion in a selected genre (novel, drama, lyric, short story). Seminar paper.	

## ITALIAN

### Required for Major in Italian: 14 courses

- ITL 312, 451, 480 or 481
- Seven electives in Italian
- Four courses in second language

<b>ITL 101-102</b> ELEMENTARY ITALIAN	<b>CORE I</b> 3-6 credits
An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Intended for those who are beginning the study of Italian. One required hour per week in Language Laboratory.	
<b>ITL 201-202</b> INTERMEDIATE ITALIAN	<b>CORE I, II</b> 3-6 credits
Exercises in composition, grammatical review, and selected readings with a view to introducing the student to the literature and civilization of the country.	
<b>ITL 301-302</b> LANGUAGE AND STYLE	<b>CORE I, II</b> 3-6 credits
Training in the use of correct idiomatic Italian and in the practical application of grammatical principles with a view toward improving the student's pronunciation and increasing his active vocabulary. Frequent use of audiovisual aids.	
<b>ITL 311-312</b> SURVEY OF ITALIAN LITERATURE	<b>CORE I, II</b> 3-6 credits
A comprehensive study of Italian literature from the Middle Ages to modern times, with comparative references to European literatures. Readings and discussions in Italian.	

<b>ITL 320 (F, S)</b> STUDIES IN ITALIAN CULTURE	3 credits
Analysis of contemporary Italian culture: life styles, national characteristics, folk tradition. Emphasis on the Italians' view of themselves, their place in and contributions to contemporary European civilization. Focus varies from semester to semester. May be repeated for credit.	
<b>ITL 331-332</b> READING LIST	<b>CORE I</b> 3-6 credits
Gives students an acquaintance with excerpts of Italian writers from Saint Francis of Assisi to the poets of knighthood (Pulci, Boiardo, Ariosto, Tasso).	
<b>ITL 401 (F, S)</b> HISTORY OF THE ITALIAN LANGUAGE	3 credits
Deals with the Italian language in its origins in the 7th century up to modern times. By means of a very few philologic and glottologic rules, the student will acquire a knowledge of the origins and transformation of Italian from Vulgar Latin, in chronological progression.	
<b>ITL 451 (F, S)</b> MODERN AUTHORS	<b>CORE I</b> 3 credits
Includes a survey of Italian narrative and poetic production in the late 19th century and in the 20th century.	
<b>ITL 480-481</b> SEMINAR	<b>CORE I</b> 3-6 credits
Topics of investigation vary from semester to semester. Readings, reports and discussions of a selected genre (novel, drama, short story), with special reference to the works of Dante, Leopardi, and Manzoni. Seminar paper.	
<b>79</b>	
<b>RUSSIAN</b>	
<b>Required for Major in Russian:</b> 14 courses	
<ul style="list-style-type: none"> <li>• RUS 301-302 or 303-304, 401-402; SLA 403-404</li> <li>• Four Russian or Slavic electives</li> <li>• Four courses in second language</li> </ul>	
<b>RUS 101-102</b> ELEMENTARY RUSSIAN	<b>CORE I</b> 3-6 credits
A modified audio-lingual approach; regular exercises in Language Laboratory stress fundamental structural features of the contemporary spoken language.	
<b>RUS 201-202</b> INTERMEDIATE RUSSIAN	<b>CORE I, II</b> 3-6 credits
Second part of two-year program based on modified audio-lingual principles. Continued emphasis on Language Laboratory work. Introduction to literature and civilization. Translation of business correspondence and readings in general science.	
<b>RUS 241-242</b> RUSSIAN LITERATURE OF THE 19th CENTURY	3-6 credits
Romanticism and realism in Russian literature. Readings from Pushkin, Griboedov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.	
<b>RUS 245-246</b> SOVIET LITERATURE	3-6 credits
Socialist realism as a doctrine of art and literature in the Soviet Union. Readings from Gorky, Mayakovsky, Babel, Olesha, Leonov, Zamyatin, Zoshchenko, Sholokhov, Ilf and Petrov, Simonov, Pasternak, Yevtushenko, Solzhenitsyn, and others.	
<b>RUS 301 (F)</b> ADVANCED GRAMMAR AND CONVERSATION	<b>CORE I, II</b> 3 credits
Advanced grammar exercises and conversation. Reading of a Russian newspaper.	

<b>RUS 302 (S)</b> SCIENTIFIC RUSSIAN	<b>CORE I, II</b> 3 credits
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Theory and practice in translating scientific texts. Selected readings in chemistry, physics, mathematics, geology, anatomy, and astronomy.

<b>RUS 303-304</b> ADVANCED READINGS AND COMPOSITION	3-6 credits
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Selected readings of 19th and 20th century Russian prose and verse. Translation of selected scientific articles. Intensive exercises in translating standard English prose into Russian.

<b>RUS 401 (F)</b> HISTORY OF THE RUSSIAN LANGUAGE	3 credits
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Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian.

<b>RUS 402 (S)</b> OLD RUS' LITERATURE	3 credits
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Selected readings from the epic, annalistic, and hagiographic literature from the 11th to the 17th centuries with special emphasis on *Igor Tale* and the *Primary, Kievan, and Galician-Volynian* chronicles. The beginnings of fiction.

### RELATED STUDIES:

<b>SLA 320 (S)</b> THE CULTURES OF THE PEOPLES OF THE SOVIET UNION	3 credits
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80

Lectures and readings on seventeen major Soviet nationalities: the fifteen which have their own Union Republics, plus the Tatars and the Jews. An in-depth view of the territory, demography, culture, media, education, language, and national attitudes of the various peoples of this multi-national state.

<b>SLA 403 (F)</b> UKRAINIAN	3 credits
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The study of the phonology, morphology, syntax, and vocabulary of a second Eastern Slavic language, Ukrainian, by noting the differences that exist between it and Russian.

<b>SLA 404 (S)</b> POLISH	3 credits
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The study of the phonology, morphology, syntax, and vocabulary of a Western Slavic language, Polish, by noting the differences that exist between Polish, Russian, and Ukrainian.

### SPANISH

#### Required for Major in Spanish: 14 courses

- SPN 311-312, 313
- Seven Spanish electives (two from 400 list)
- Four courses in second language
- Recommended: History 131, 132

<b>SPN 101-102</b> ELEMENTARY SPANISH	<b>CORE I</b> 3-6 credits
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Designed to provide a fundamental capacity in conversation; audio-oral method employed. Grammar is presented strictly on a functional basis to facilitate speech and comprehension. One required hour per week in the Language Laboratory.

<b>SPN 201-202 (F, S)</b> INTERMEDIATE SPANISH	<b>CORE I, II</b> 3 credits
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Review exercises in comprehending, speaking, reading, and writing Spanish. Cultural information on Spanish-speaking countries. Weekly assignments in the Language Laboratory.

<b>SPN 301-302</b> ADVANCED CONVERSATION AND COMPOSITION	<b>CORE I, II</b> 3-6 credits
Includes intensive oral and written exercises with a view towards improving the student's speaking and writing skills. Students make frequent use of audio aids.	
<b>SPN 307 (F, S)</b> COMMERCIAL SPANISH	3 credits
Intended to acquaint the student with commercial Spanish terminology combined with lectures, readings, and translations of business letters. Introduction of new vocabulary used in the business world with emphasis on Spanish American idiomatic expressions.	
<b>SPN 311-312</b> SURVEY OF SPANISH LITERATURE	<b>CORE I, II</b> 3-6 credits
An introduction to the study of peninsular Spanish literature from the Middle Ages to the present. Readings and discussions in Spanish.	
<b>SPN 313 (F, S)</b> SURVEY OF SPANISH AMERICAN LITERATURE	<b>CORE I</b> 3 credits
Reading and discussion of works from the colonial period to the 20th century, with special emphasis upon contemporary Latin American literature.	
<b>SPN 321 (F)</b> SURVEY OF SPANISH CIVILIZATION	3 credits
A cultural and historic study of Spain's past, examining the effects of Rome and Islam, the period of Spanish domination and later decline, and the status of present-day Spain.	
<b>SPN 322 (S)</b> SURVEY OF SPANISH AMERICAN CIVILIZATION	3 credits
A cultural and historic presentation of the diversity of Latin America from the Aztecs and Incas to the Conquest, the viceroyalties, and the establishment of independent nations; course concludes with a thorough study of today's Latin America.	
<b>SPN 350-351</b> INTRODUCTION TO BILINGUAL-BICULTURAL STUDIES	3-6 credits
Linguistic and cultural problems in teaching English to speakers of other languages. Emphasis on materials, techniques and attitudes of teachers and students. Special emphasis on the vocabulary and idiom of the Caribbean. Cultural survey of present day problems in Puerto Rico and other Caribbean countries.	
<b>SPN 401 (F)</b> HISTORY OF THE SPANISH LANGUAGE	3 credits
Study of the formation of the language, its evolution and phonetic changes from Latin to the present modern pronunciations. Reading and discussion of the early Spanish texts and the development of the language in the early period.	
<b>SPN 405 (F, S)</b> LITERATURE OF THE MIDDLE AGES	<b>CORE I</b> 3 credits
Emphasis is placed on such works as <i>Cantar de Mio Cid</i> , <i>Poema de Fernan Gonzalez</i> , and <i>Amadis de Gaula</i> ; authors include Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Marques de Santillana, and los Manrique.	
<b>SPN 411 (F, S)</b> RENAISSANCE LITERATURE	<b>CORE I</b> 3 credits
The works of Boscan, Garcilaso, Encina, Nebrija, Torres Naharro, and Lope de Rueda, and such works as <i>Tirant lo Blanc</i> , <i>Celestina</i> , and <i>Lazarillo de Tormes</i> form the basis of this period of literary activity.	
<b>SPN 415 (F, S)</b> DRAMA OF THE GOLDEN AGE	<b>CORE I</b> 3 credits
Readings, reports, and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderon, Alarcon, and others.	

<b>SPN 419 (F, S)</b> CERVANTES	<b>CORE I</b> 3 credits
Readings and discussions of <i>Don Quixote</i> . Other important works by Cervantes also discussed.	
<b>SPN 442 (F, S)</b> ROMANTICISM	<b>CORE I</b> 3 credits
A study of the early 19th century which analyzes works of such authors and poets as Larra, Duque de Rivas, Zorilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer.	
<b>SPN 443 (F, S)</b> POETRY OF THE 19th AND 20th CENTURIES	<b>CORE I</b> 3 credits
Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered.	
<b>SPN 448 (F, S)</b> THE SPANISH AMERICAN NOVEL	<b>CORE I</b> 3 credits
Introduces students to the development of the contemporary Latin American novel through an analysis of the sociological and literary aspects of the work of various leading authors. Special attention to works by and about women. Class discussions and examinations in Spanish.	
<b>SPN 457 (F, S)</b> THE SPANISH NOVEL OF THE 19th AND 20th CENTURIES	<b>CORE I</b> 3 credits
Reading and discussion of Spanish authors, their ideology and philosophies: Fernan Caballero, Galdos, Valera, Pio Baroja, Ala, Cela, Delibes, and Goytisolo.	
<b>SPN 480 (F, S)</b> SEMINAR	<b>CORE I</b> 3 credits

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Topics of investigation vary from semester to semester.

## GEOLOGY AND PHYSICS

H.A. BART, Ph.D., *Chair*

*Professor:* Hoersch

*Associate Professors:* Bart, Guttmann, Longo, Simmons

*Assistant Professor:* Strieb

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## FOUNDATION COURSES

<b>GEO 151 (F, S)</b> PLANET EARTH	3 credits	<b>GEO 153 (F, S)</b> OCEANOGRAPHY	3 credits
An introduction to the physical processes that interact to change the interior and the surface of the earth, including weathering, earthquakes, volcanoes, glaciation, marine erosion, "Continental Drift," and mountain building. Two hours lecture, two hours laboratory and field trip.		A study of the physical processes that affect the oceans of the earth. Emphasis will be on tides, currents, waves, chemistry of the sea, and geology of ocean basins. Three hours lecture.	
<b>GEO 152 (F, S)</b> EARTH HISTORY	3 credits	<b>GEO 154 (F, S)</b> ASTRONOMY	3 credits
An introduction to the physical and biological processes that have modified the earth through geologic time. Emphasis will be on earth changes through geologic time, and the evolution of life from simple cells to the higher vertebrates. Laboratory experience will include study of fossils, and basic geologic principles. Two hours lecture, two hours laboratory, and field trip.		A contemporary view of the universe from the big bang to its possible ends, our sun and its planets, galaxies, the life and death of stars, white dwarfs, neutron stars, quasars, black holes, life on earth, and the possibility of extraterrestrial intelligence.	

## GEOLOGY

### Required for Major in Geology: 15 courses

- GEO 151, 152, 202, 203, 204, 205, 302, 303, 401, plus three elective geology courses at the 200 level or above.
- CHM 111-112, MTH 113.
- Suggested courses: Students anticipating graduate work in geology or closely related areas are advised to elect courses in basic sciences, mathematics, computer science, Russian, German, or French.

#### GEO 202 (F)

##### MINERALOGY AND CRYSTALLOGRAPHY

4 credits

The identification of minerals using physical characteristics. An introduction to crystal chemistry and symmetry. Three hours lecture, two hours laboratory. Prerequisites: GEO 151, 152.

#### GEO 203 (S)

##### OPTICAL MINERALOGY

4 credits

An introduction to the theory of light transmission in crystals. Use is made of the polarizing microscope to study light phenomena in minerals. Lab is concerned with identification of minerals using thin section and oil immersion techniques. Two hours lecture, four hours laboratory. Prerequisite: GEO 202.

#### GEO 204 (S)

##### PETROLOGY

4 credits

Descriptive classifications of textures and processes of igneous, metamorphic, and sedimentary rocks with emphasis on hand specimen identification. Three hours lecture, two hours laboratory. Prerequisite: GEO 202.

#### GEO 205 (F)

##### PALEONTOLOGY

4 credits

A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the stratigraphic record. Includes recent advances in paleoecology. Two hours lecture, three hours laboratory.

#### GEO 301 (S)

##### STRATIGRAPHY

4 credits

An introduction to physical stratigraphy, methods of correlation of rock and time rock units; the interpretation of paleogeography. Two hours lecture, three hours laboratory.

#### GEO 302 (F)

##### SEDIMENTOLOGY

4 credits

Analysis and interpretation of sedimentary processes; classification and analysis of the common sedimentary rocks. Three hours lecture, three hours laboratory.

#### GEO 303 (F)

##### STRUCTURAL GEOLOGY

4 credits

Description and mechanics of structural features such as: folds, joints, faults, lineations and foliations features. Laboratory is concerned with problem solving using geometric and stereographic techniques, cross-sections, and the examination of tectonic forces that cause deformation. Three hours lecture, two hours laboratory. Prerequisites: MTH 113, GEO 151, 152, 202, 204.

#### GEO 304 (S)

##### GLOBAL TECTONICS

3 credits

A review of the literature on the theory of plate movement and study of the dynamic earth system with implications as to the origins of magma, earthquakes, and sea-floor spreading. Three hours lecture, one hour laboratory. Prerequisites: GEO 151, 152.

**GEO 305 (S)****GEOCHEMISTRY**

3 credits

Discussions of the geochemical behavior of the elements comprising the earth. A look at the chemical processes involved with weathering, oxidation, and the crystal chemistry of solids with application to the formation of stable compounds (phase theory). Three hours lecture. Prerequisites: CHM 111-112; GEO 151, 152, 202.

**GEO 401 (F)****IGNEOUS PETROLOGY**

4 credits

Classification, examination, and analysis of igneous rocks. Petrographic analysis of rock suites in thin section will be used to determine the cooling histories of the rocks. Two hours lecture, four hours laboratory, field trips. Prerequisites: GEO 202, 203, 204; CHM 111, 112.

**GEO 402 (S)****METAMORPHIC PETROLOGY**

4 credits

A review of the metamorphic facies concept with a look at the physical, thermodynamic, and geochemical processes concerned with mineral recrystallization. Detailed thin-section examination of the various metamorphic zones. Two hours lecture, four hours laboratory, field trips. Prerequisites: GEO 202, 203, 204; CHM 111, 112.

**GEO 403 (S)****ECONOMIC GEOLOGY**

3 credits

The study of ore deposits associated with igneous, metamorphic, and sedimentary rocks. Emphasis on classical ore deposits. A survey of the various origins for metallic and non-metallic deposits. Three hours lecture. Prerequisites: GEO 202, 204; CHM 111, 112.

**84****GEO 470 (F)****TOPICS IN ADVANCED GEOLOGY**

3 credits

Selected topics dealing with contemporary developments in geology.

**GEO 480 (F, S)****RESEARCH**

1-4 credits

Supervised research in geology. Can be elected in fall, spring, or summer. Permission of chairman required.

## PHIYSICS

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**FOUNDATION COURSE****PHY 150 (F, S)****SOME REVOLUTIONS IN PHYSICS**

3 credits

A non-mathematical introduction to physics with emphasis on studying the processes of scientific change. Ancient astronomy and mechanics. The Copernican/Newtonian Revolution, Special Relativity. Current ideas in elementary particle physics.

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**Required for Major in Physics: 14 courses**

- PHY 105-106, 207, 208, 307, 308, 311, 312, 411, 413.
- PHY 301 and 302 or 351 and 352.
- MTH 120, 221.

**PHY 102****FROM THE ATOM DOWN**

3 credits

For science and non-science majors. General relativity and cosmology. The conservation laws and their relation to elementary particle physics. The role of chance in physics from thermodynamics to the quantum revolution. Matter theory. Physics and life. Concepts rather than mathematics stressed.

**PHY 105-106**

## GENERAL PHYSICS

4-8 credits

Vectors, elementary mechanics of point particles and rigid bodies, gravitation, simple harmonic motion and waves. Elementary optics, electromagnetism and DC circuits. Prerequisite: MTH 120. Three hours lecture, two hours laboratory; two terms.

**PHY 120**

## SCIENCE, TECHNOLOGY, AND SOCIETY

3 credits

A study of some interactions between science, technology, and society. Topics include: the scientific community; history of technology; weapons; science, technology, and the arts; technology and change.

**PHY 207 (F)**

## MODERN PHYSICS I

3 credits

The breakdown of classical physics around the turn of the century and its replacement by relativity theory and quantum mechanics. Attention to the experiments leading to this breakdown. Course culminates with the Schrödinger equation and its application to simple potentials. Prerequisites: PHY 105-106; MTH 221 concurrently; or permission of instructor.

**PHY 208 (S)**

## MODERN PHYSICS II

3 credits

Applies basic quantum theory developed in PHY 207 (the Schrödinger equation) to a series of problems in which it has had marked success. They include: atomic spectra; the physics of molecules including the chemical bond; condensed matter; the nucleus and fundamental particles. Prerequisite: PHY 207.

**PHY 301 (F)**

## ELECTRONICS

3 credits

Elementary DC and AC circuit theory; diodes, bipolar and field effect transistors; small signal analysis, feedback; operational amplifiers. Prerequisites: PHY 105-106 or permission of instructor. Laboratory required.

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**PHY 302 (S)**

## INTRODUCTION TO DIGITAL COMPUTER ELECTRONICS

3 credits

Diodes and transistors used as switching devices, Boolean algebra, 7400 integrated circuit series, counters, adders, general registers and basic computer hardware. Prerequisite: PHY 301 or permission of instructor. Laboratory required.

**PHY 305 (S)**

## THERMAL PHYSICS

3 credits

The laws of thermodynamics; techniques of Statistical Mechanics. Applications to classical and quantum ideal gases and other systems. Kinetic theory and transport phenomena. Prerequisites: PHY 105, 106, 207 (or permission of instructor).

**PHY 307 (F)**

## MATHEMATICAL PHYSICS I

3 credits

Infinite series, Taylor expansions, partial differentiation, multiple integration, differential and integral vector calculus, Fourier series. Partial differential equations, special functions, boundary value problems. Prerequisite: MTH 221.

**PHY 308 (S)**

## MATHEMATICAL PHYSICS II

3 credits

Calculus of variations, linear algebra and eigenvalue problems, complex variables, the Fourier and Laplace transforms with applications to ordinary and partial differential equations. Prerequisite: PHY 307 or equivalent.

**PHY 311 (F)**

## ELECTRICITY AND MAGNETISM I

3 credits

Electrostatics, magnetostatics, dielectrics and magnetic materials, Maxwell's equations, electromagnetic waves. Prerequisite: PHY 307 or equivalent.

**PHY 312 (S)****ELECTRICITY AND MAGNETISM II**

3 credits

Radiating systems: accelerated point charge, electric and magnetic dipoles, electric quadrupole radiation, antennas. Lorentz invariance of the Maxwell equations and some consequences thereof. Prerequisite: PHY 311.

**PHY 313 (S)****STATES, WAVES, AND PHOTONS**

3 credits

A modern introduction to optics encompassing matrix representations of optical systems and polarization states of light: the Jones calculus, the Mueller calculus and the Stokes representation; states of light as eigenstates of operators, expectation values, the bra-ket product and probability amplitudes; an approach to scalar diffraction through Green's theorem and Fourier Transforms; the electromagnetic field and its quantization. Prerequisite: PHY 311.

**PHY 321****INTRODUCTION TO ASTROPHYSICS**

3 credits

Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.

**PHY 351****ADVANCED LABORATORY I**

3 credits

Laboratory work with close faculty guidance, but emphasizing independent work and a professional approach. A selection of experiments from mechanics, acoustics, electricity and magnetism, atomic and nuclear physics, experimental methods and instrumentation, error and data analysis. Prerequisite: PHY 207.

**86****PHY 352****ADVANCED LABORATORY II**

3 credits

Similar in purpose to PHY 351 but with material selected which will not duplicate the student's previous experience. Prerequisite: PHY 207.

**PHY 353 (S)****INTRODUCTION TO MICROPROCESSORS**

3 credits

Hardware and software of a well known microprocessor chip will be dealt with. CPU'S, I/O, memories and A/D will be some of the topics treated. Microprocessors available to conduct required experiments. Prerequisite: PHY 302 or permission of instructor.

**PHY 411-412****MECHANICS**

3-6 credits

Topics include the single particle and systems of particles in one, two, and three dimensions; rigid body motion; moving coordinate systems; the mechanics of continuous media; Lagrangian and Hamiltonian formulations; tensor methods; special relativity. Prerequisites: General Physics, PHY 307 or MTH 222 or permission of instructor.

**PHY 413-414****QUANTUM PHYSICS I**

3-6 credits

The Schrödinger equation and its application to one dimensional systems and the hydrogen atom. Heisenberg's uncertainty relations, perturbation theory for degenerate and nondegenerate states. Quantization of the electromagnetic field and applications of quantum mechanics to atomic, nuclear and solid state physics. Prerequisite: PHY 105-106, PHY 307 or equivalent.

**PHY 470****SPECIAL TOPICS**

3 credits

As interests dictate, special programs may be introduced into the curriculum, discussing special-ized areas for group or independent study.

**PHY 480-481****RESEARCH**

1-2 credits

Individual studies and research, presentation of papers, familiarization with the literature.

## HISTORY

GEORGE B STOW, Ph.D., Chair

Professors: O'Grady, Rossi, Stow

Associate Professors Cziraky, Fair, Hennessy, Labunka, McCarthy

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### FOUNDATION COURSE

#### HIS 150

##### GLOBAL HISTORY

3 credits

Through a study of the evolution and interactions of the cultures of Europe, America, Africa, and Asia from 1500 to the present, students will develop a greater understanding of the relationships among modern nations, so necessary in today's shrinking globe.

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### CORE COURSES

#### Approved sequences for Core I:

*American*: (HIS 101, 201, 301). *Western Civilization*: (HIS 102, 202, 302). *Third World*: (103, 203, 303). When you select one of these three sequences, you must take all three courses within that same sequence.

#### Approved courses for Core II:

HIS 232, 244, 246, 248, 325, 328, 331, 333, 340, 344.

#### Required for Major in History: 14 courses

- Three from each section, plus a two-semester seminar.

### CORE I SEQUENCES

#### AMERICAN SEQUENCE

##### HIS 101

##### THE UNITED STATES TO 1840

Traces the unfolding of American history from colonial times through Jacksonian America. The coming of the Revolution, the Revolution and its results, the Federalist experiment, and the Jeffersonian concept of democracy.

##### HIS 201

##### THE UNITED STATES FROM 1840 TO 1920

Covers from the Jacksonian era to the end of World War I. The coming of the Civil War, the War and its results, Reconstruction, the Progressive Movement, and American involvement in World War I. Assigned paper develops skills in biographical research.

##### HIS 301

##### THE UNITED STATES FROM 1920 TO THE PRESENT

Covers from the end of World War I to the present. The Roaring Twenties, America between the wars, American involvement in World War II, America and Russia in the Cold War, the Vietnam era, and the U.S. and the world in the current era. Major research paper develops analytical abilities.

#### CORE I

3 credits

#### CORE I

3 credits

#### CORE I

3 credits

## EUROPEAN SEQUENCE

### HIS 102

ANCIENT AND MEDIEVAL EUROPE TO 1400

Traces the unfolding of western civilization from pre-history to the Renaissance. The legacies of Greece and Rome; the heritage of both early Christian Europe and the Byzantine and Islamic civilizations; the contribution of later medieval Europe to the governmental, economic and intellectual growth of Europe. Two short papers reviewing outside readings.

**CORE I**

3 credits

### HIS 202

EUROPE FROM THE 15TH CENTURY TO NAPOLEON

**CORE I**

3 credits

Surveys profound changes in political, social, economic, cultural, and religious life of European society between the 15th and the end of the 18th centuries. Decline of feudal institutions, emergence of modern European states, and discoveries in the western hemisphere. Research skills developed through writing biographical paper.

### HIS 302

MODERN EUROPE SINCE 1815

**CORE I**

3 credits

Industrialism and its impact on European society; decline of political liberalism and subsequent rise of nationalism; development of modern totalitarianism and the impact of two world wars on western society. Examination of problem confronting Europe between 1815 and present in an essay involving historical research.

## THIRD WORLD SEQUENCE

### HIS 103

THE WORLD TO 1500

**CORE I**

3 credits

88

Beginning with pre-history, course examines and compares such diverse civilizations as ancient Egyptian, Hindu, Buddhist, Confucian, Inca, Kushitic, Mayan, Hebraic, Islamic, and Malian.

### HIS 203

THE THIRD WORLD 1500-1920

**CORE I**

3 credits

Focuses upon imperialism and its various manifestations in the non-western world and the emerging desire for independence among colonial nations after World War I. Bibliographical essay on imperialism develops research skills.

### HIS 303

THE THIRD WORLD 1920-PRESENT

**CORE I**

3 credits

The devolution of European power to the independence of nation states and problems associated with that independence. North-South difference, Arab-Israeli conflict, the Cold War and the Third World, communism vs. capitalism, rise of Japan, apartheid, and terrorism. Research paper utilizing bibliographical skills developed in previous course.

## SECTION I:

### CHRONOLOGICAL SURVEYS

Designed to provide a detailed examination of a more limited historical period.

### HIS 231 (131) (F)

LATIN AMERICA: THE COLONIAL PERIOD

3 credits

A survey that treats the Inca, Aztec, and Maya cultures, African influences as well as Spanish and Portuguese contributions to the development of Latin America.

### HIS 232 (132) (S)

REVOLUTION AND SOCIAL CHANGE IN LATIN AMERICA

**CORE II**

3 credits

Revolutionary movements in Latin America from Independence to the present with special emphasis on Castro, Allende, Peron, Zapata, Vargas, and the military dictators.

### HIS 235 (135) (F)

EGYPTIAN AND GREEK CIVILIZATIONS

3 credits

A survey that stresses the development of Greek civilization until the death of Alexander the Great.

<b>HIS 236 (136) (S)</b> THE HELLENISTIC AND ROMAN WORLDS	3 credits
A survey that places a special emphasis upon the Roman Republic and the Empire until 476 A.D.	
<b>HIS 238 (138) (F)</b> THE EARLY MIDDLE AGES	3 credits
A study of the period from 284 A.D. until c. 1000 A.D., emphasizing the synthesis of Roman, Christian, and barbarian cultures.	
<b>HIS 239 (139) (S)</b> THE LATER MIDDLE AGES	3 credits
A study of the period from c. 1000 A.D. until the Renaissance, focusing on the social, economic, intellectual, and political revival of Europe.	
<b>HIS 241 (141) (F)</b> MODERN EUROPE TO 1870: THE AGE OF REVOLUTIONS	3 credits
A survey of Europe centered on the political and social development in Germany and France and the impact of Russia's rise to world power.	
<b>HIS 242 (142) (S)</b> MODERN EUROPE SINCE 1870: THE AGE OF VIOLENCE	3 credits
A detailed survey of Europe in the last hundred years.	
<b>HIS 244 (144) (F, S)</b> TOPICS IN AFRICAN HISTORY	<b>CORE II</b> 3 credits
An account of the empires, tribes, and development of Africa from earliest times to the present.	
<b>HIS 246 (146) (F, S)</b> EAST ASIA IN THE MODERN WORLD	<b>CORE II</b> 3 credits
Changes in Modern Asia as a result of the rise of industrialism, urbanism, nationalism, and western influence.	
<b>HIS 248 (148) (F, S)</b> SLAVIC AND EASTERN EUROPEAN HISTORY	<b>CORE II</b> 3 credits
An examination of the rise of Slavic civilization and the present problems of Eastern Europe.	
<b>SECTION II:</b> <b>SPECIAL THEMES</b>	
Special in-depth analysis of limited themes and topics.	
<b>HIS 324 (224) (F, S)</b> HISTORY OF PHILADELPHIA	3 credits
The historical development of Philadelphia from colonial times to the present, emphasizing the way people lived, the impact of transportation upon city growth, and the changing nature of industrialization. Lectures combined with field trips. Cost of field trips requires an additional fee of \$40.00.	
<b>HIS 325 (225) (F, S)</b> IMPERIALISM IN THE MODERN WORLD	<b>CORE II</b> 3 credits
A study of the expansion of western nations into the world of Asia and Africa in the 19th century, and the contraction of western influence in these areas in the 20th century.	
<b>HIS 328 (228) (F)</b> WOMEN AND HISTORY	<b>CORE II</b> 3 credits
The history of women and their changing role and position in Western Europe from the Classical Period to the 20th century. Particular attention to the development of primary institutions such as the family and motherhood.	
<b>HIS 329 (229) (S)</b> THE AMERICAN WOMAN	3 credits
An in-depth analysis of the experience of women in American culture. Special attention to the women's rights movement, women and the law, and the unique challenges facing black women.	

**IHS 331 (231) (F, S)**  
AMERICA'S MILITARY PAST

**CORE II**  
3 credits

The impact of the American military establishment upon American society, and the formation of defense strategy and foreign policy.

**IHS 333 (233) (F, S)**  
THE AMERICAN IMMIGRANT

**CORE II**  
3 credits

The history of immigration to America and the ethnic impact upon American institutions.

**IHS 337 (237) (F, S)**  
THE BLACK EXPERIENCE IN AMERICA

3 credits

The main themes in black history from the African experience to the present with special attention given to slavery, protest movements, civil rights, and black achievement.

**IHS 340 (240) (F, S)**  
TOPICS IN MODERN HISTORY

**CORE II**  
3 credits

An examination of selected topics illustrating the political, social, and cultural history of the modern world.

**IHS 342 (242) (F, S)**  
HISTORY OF THE WESTERN MOVEMENT IN AMERICA

3 credits

A study of the American frontier emphasizing pioneer life, federal Indian policy, and the settlement of the Great Plains and Far West.

**IHS 344 (244) (F, S)**  
BIOGRAPHICAL HISTORY

**CORE II**  
3 credits

An investigation of important historical events through the role of individual men and women in history. Stresses guided research.

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**IHS 347 (247) (F, S)**  
PRESIDENTIAL POLITICS: ROOSEVELT TO REAGAN

3 credits

Historical analysis of presidential campaigns from 1900 to 1980, stressing the evolution of political techniques, issues, political parties, and presidential personalities.

**SECTION III:**

**NATIONAL COURSES**

A detailed examination of specific eras in national histories.

**IHS 402 (302) (F, S)**  
THE AMERICAN REVOLUTION

3 credits

An intensive analysis of concepts and movements generated in the American colonies which resulted in revolution and separation of the British settlements.

**IHS 413 (313) (F, S)**  
JEFFERSONIAN-JACKSONIAN DEMOCRACY

3 credits

A detailed analysis of the development of the American political system in an increasingly democratic society.

**IHS 415 (315) (F, S)**  
THE CIVIL WAR ERA

3 credits

A detailed study of the disruption of the Union, stressing the causes, personalities, and human drama of the military events leading to Appomattox.

**IHS 425 (325) (F, S)**  
AMERICA AS A WORLD POWER, 1939-PRESENT

3 credits

The growth of government involvement at home and abroad since 1939; reading and analysis of original documents.

**IHS 429 (329) (F, S)**  
THE EMERGENCE OF MODERN AMERICA, 1877-1913

3 credits

The nationalization of American life, including the building of the railroad network, the rise of industry, the labor movement, immigration, and urbanization.

**HIS 440 (340) (F, S)**

MODERN IRELAND

3 credits

An examination of the major political, social, and economic developments in Ireland since the Famine of 1845.

**HIS 447 (347) (F, S)**

THE UNITED STATES AND EAST ASIA

3 credits

The interrelationship of the United States and the East Asian world in the modern period.

**HIS 452 (352) (F, S)**

REVOLUTIONARY RUSSIA FROM 1917 TO THE PRESENT

3 credits

A survey of internal conflicts leading to the Revolution and its aftermath.

**HIS 458 (358) (F, S)**

RECENT BRITAIN: EMPIRE TO WELFARE STATE

3 credits

A detailed analysis of the decay of the Empire, the rise of the welfare state, and the impact of both on English life.

**HIS 460 (249) (F, S)**

DIRECTED READINGS

3 credits

Readings of certain basic books relating to a specific historical topic, theme, or era, assignments discussed in seminar-tutorial fashion.

**SECTION IV:****SEMINARS**

Required of all history majors. These courses are designed to provide the student with an exposure to the methodology of historical research. Methodology is offered in the fall semester, research seminars in the spring.

**HIS 480-485 (F, S)**

SEMINARS

3-6 credits

Methodological and research courses.

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**INTERNATIONAL STUDIES MINOR**

Directed by: DR. JOSHUA BUCH

Designated as a minor available to all students regardless of the major.

**Required: 6 Courses**

Any 3 courses from the following:

- All foreign language courses;
- ENG 165, 312;
- PHL 305;
- REL 240, 340, 341, 344;
- SOC 207, 208, 213, 308;
- ECN 412;
- HIS 103, 203, 302, 303, 231, 232, 241, 242, 244, 246, 248, 325, 440, 447, 452, 458;
- POL 230, 231, 233, 330, 331, 332, 333, 334

Any 3 courses from the following:

- ECN 230, 231;
- POL 231;
- MGT 381;
- FIN/MKT 403.

## MATHEMATICAL SCIENCES

SAMUEL J. WILEY, Ph.D., Chair

Professors: Albright, McCarty

Associate Professors: Hofmann, Longo, O'Neill, Quinn, Wiley

Assistant Professors: Andrilli, Dondero, Elliott, Kirsch, McManus, Mooney

Pomerance, Turk, Van Rossum

Instructors: Hoover, Malseed

Lecturer: Scheiter

**Required for Major in Mathematics:** 15 courses

**Required for Major in Computer Science:** 18 courses

**Required for Major in Mathematics and Education:** 12 + courses

There are three major programs: mathematics, computer science, and mathematics-education. The choice of program should depend on career objectives and personal interests. If there are any questions the student should consult with the Department Chair or departmental advisor.

**Mathematics:** (15 courses)

MTH 120, 221, 222, 240, 321, 341; CSC 155; PHY 105-106 or 111-112; six mathematics courses from Section B below.

**Computer Science:** (18 courses)

MTH 140, 120, 221, 240; CSC 155, 156, 254, 257, 357, 358, 459; four computer science courses chosen from Section D below; PHY 105-106, one approved course in probability and statistics.

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Students wishing to take advanced level (300-400) courses in Computer Science must be admitted to advanced standing in the program or have permission of the Chair. A certificate of advanced standing in Computer Science will be awarded when a student has completed MTH 120, MTH 140, CSC 155, CSC 156, CSC 254 and CSC 257 with a C (2.00) average or better. Students may preregister for advanced level courses before certification of advanced standing in Computer Science but they will not be permitted to take such courses until certified.

**Mathematics-Education** (12 + courses):

MTH 140, 120, 221, 222, 240, 321, 330, 341; CSC 155, PHY 105-106; one mathematics course from Section B below; courses specified by the Education Department.

**Computer Science-Mathematics:**

A dual major in Computer Science-Mathematics can be obtained by taking: CSC 155, 156, 254, 257, 357, 358, 459; four additional CSC courses from Section D below; MTH 140, 120, 221, 222, 240, 321, 341, 410; three additional MTH courses from Section B below; PHY 105-106. This dual major requires approval of the Dean and Department Chair.

### SECTION A:

**MTH 101 (F)**

INTERMEDIATE ALGEBRA

3 credits

Algebraic operations; linear and quadratic equations; exponents and radicals; elementary functions; graphs; systems of linear equations. Note: Not to be taken to fulfill major requirements. Students who have other college credits in mathematics must obtain permission of the Department Chair to enroll in this course.

**MTH 111 (F, S)**

INTRODUCTION TO CALCULUS

3 credits

Fundamentals of differential calculus, concentrating on algebraic, exponential, and logarithmic functions with applications of calculus to the management and social sciences. Intended for business and liberal arts majors who have had at least two years of high school algebra.

<b>MTH 112 (F, S)</b>		
CALCULUS AND FINITE MATHEMATICS		3 credits
Continuation of Mathematics 111. Topics include integral calculus, permutations, combinations, elementary probability, and linear systems and matrices. Prerequisite: MTH 111.		
<b>MTH 113 (F, S)</b>		
ALGEBRA AND TRIGONOMETRY		4 credits
Sets; the real number system; linear systems; matrices; logarithmic, exponential, and trigonometric functions; theory of equations. A knowledge of elementary trigonometry is assumed.		
<b>MTH 120 (F, S)</b>		
CALCULUS AND ANALYTIC GEOMETRY I		4 credits
Functions; limits and continuity; differentiation of algebraic functions; maxima and minima; curve tracing; velocity and acceleration; integration with applications to areas, volumes, surfaces, and work; the fundamental theorem of the calculus. Prerequisite: MTH 113 or equivalent in secondary school mathematics.		
<b>MTH 140 (F)</b>		
DISCRETE MATHEMATICS		3 credits
Logic; methods of proof; sets; permutations and combinations; graphs and digraphs; trees; functions and relations; representation of algorithms; Boolean algebras and logic circuits; Karnaugh maps.		
<b>MTH 221 (F, S)</b>		
CALCULUS AND ANALYTIC GEOMETRY II		4 credits
Differentiation and integration of transcendental functions; techniques of integration; improper integrals; conic sections; polar coordinates; introduction to infinite series. Prerequisite: MTH 120.		
<b>MTH 222 (F, S)</b>		
CALCULUS AND ANALYTIC GEOMETRY III		4 credits
Vectors; vector functions; partial differentiation; multiple integration; infinite series; Taylor expansions. Prerequisite: MTH 221.		
<b>MTH 240 (F, S)</b>		
LINEAR ALGEBRA		3 credits
Systems of linear equations; matrices; determinants; real vector spaces; subspaces; span and linear independence; basis and dimension; Gram-Schmidt process; linear transformations; change of basis; eigenvalues and eigenvectors; diagonalization; applications.		
<b>MTH 321 (F)</b>		
ADVANCED CALCULUS		3 credits
Calculus of vector valued functions; Green, Gauss, and Stokes theorems; infinite series. Prerequisites: MTH 222 and 240, or permission of instructor.		
<b>MTH 341 (F)</b>		
ABSTRACT ALGEBRA		3 credits
Sets and mappings; groups, rings, fields, and integral domains; substructures and quotient structures; homomorphisms and isomorphisms; abelian and cyclic groups; symmetric and alternating groups; polynomial rings. Prerequisite: MTH 240 or permission of instructor.		
<b>MTH 470, 471, 472, 473</b>		
SELECTED TOPICS IN MATHEMATICS		3 credits
An introductory course to specialized research, concentrating on one particular aspect of mathematics. The subject matter will vary from term to term.		

**SECTION B:****MTH 322 (S)****DIFFERENTIAL EQUATIONS**

3 credits

Differential equations of the first order; linear differential equations of higher order; Laplace transforms; series solutions; applications to the physical sciences. Prerequisite: MTH 222.

**MTH 330 (F 1988)****MODERN GEOMETRIES**

3 credits

Topics from Euclidean geometry, projective geometry, the classical non-Euclidean geometries; recent developments in geometry. Prerequisite: MTH 240.

**MTH 345 (F 1987, 1989)****COMBINATORICS**

3 credits

Permutations and combinations; generating functions; recurrence relations and difference equations; inclusion/exclusion principle; derangements; other counting techniques, including cycle indexing and Polya's method of enumeration. Prerequisite: MTH 221.

**MTH 410 (F 1987, 1989)****PROBABILITY AND STATISTICS I**

3 credits

Sample spaces and probability measures; combinatorics; conditional probability and independence; random variables; densities and distributions; functions of a random variable; expected value; variance; Chebyshev's inequality; correlation coefficient; laws of large numbers; central limit theorem; applications to random walk. Prerequisite: MTH 222.

**94****MTH 411 (S 1988, 1990)****PROBABILITY AND STATISTICS II**

3 credits

Measures of central tendency and variability treated briefly. Random sampling from normal and non-normal populations. Estimation of parameters. Maximum likelihood estimates. Normal, chi-square, Student's t, and F distributions. Correlation and regression. Prerequisite: MTH 410.

**MTH 421 (S 1989)****NUMERICAL ANALYSIS**

4 credits

Basic concepts: interpolation and approximations; summation and finite differences; numerical differentiation and integration; roots of equations. Prerequisites: MTH 222, CSC 155.

**MTH 424 (S 1988, 1990)****COMPLEX VARIABLES**

3 credits

Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem; power series; infinite series; calculus of residues; contour integration; conformal mapping. Prerequisite: MTH 321 or permission of instructor.

**MTH 425 (F 1988)****MATHEMATICAL MODELING**

3 credits

Uses of mathematical methods to model real-world situations, including energy management, assembly-line control, inventory problems, population growth, predator-prey models. Other topics include: least squares, optimization methods, interpolation, interactive dynamic systems, and simulation modeling. Prerequisite: MTH 221.

**MTH 430 (S 1989)****TOPOLOGY**

3 credits

Topological spaces; subspaces; product spaces; quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: MTH 341 or permission of instructor.

# COMPUTER SCIENCE

## FOUNDATION COURSES

### CSC 151 (E, S)

#### INTRODUCTION TO COMPUTING WITH APPLICATIONS

3 credits

Programming in BASIC, with an emphasis on business applications, and computer solution of several data processing problems. Survey of computers, languages, and systems. Data representation; branching; looping; arrays and files. Introduction to use of a spreadsheet package. Recommended for business and liberal arts majors.

### CSC 155 (E, S)

#### FUNDAMENTALS OF COMPUTING

3 credits

Programming in Pascal, including data representation, control structures, Boolean and character variables, procedures, functions, arrays. Development of algorithms for problem solution with an emphasis on mathematical-scientific applications. Recommended for science, mathematics, and computer science majors. Prerequisite: one semester of college mathematics (or taken concurrently).

## SECTION C:

### CSC 154 (S)

#### COBOL IN BUSINESS DATA PROCESSING

3 credits

Review of computer concepts, problem solving, and program documentation. Study and use of COBOL language in several case studies of commercial data processing applications. Emphasis on structured programming, documentation, problem analysis, file processing, and organization. This is a terminal course designed for business majors. Prerequisite: CSC 151.

### CSC 156 (E, S)

#### ALGORITHMS AND DATA STRUCTURES

3 credits

Continuation of Computer Science 155. Introduction to elementary data structures in Pascal: arrays, packed arrays, records, sets, files, stacks, queues, linked lists, binary trees. Sorting and searching algorithms: recursion. Prerequisite: CSC 155.

### CSC 254 (E, S)

#### FILE AND DATA MANAGEMENT SYSTEMS

3 credits

Introduction to COBOL language. File types and file management. Introduction to sequential, indexed sequential, and random-access file structures. Prerequisite: CSC 156 or permission of instructor.

### CSC 257 (E, S)

#### COMPUTER STRUCTURE AND ASSEMBLY LANGUAGE

3 credits

Introduction to computer structure and architecture with programming assignments done in assembly language. Computer structure and machine language; assembly language; addressing techniques; macros; file input/output; subroutines; recursion; interrupts; error handling. Prerequisite: CSC 156.

### CSC 357 (F)

#### SYSTEMS SOFTWARE

3 credits

Macros and their use. Structure and function of assemblers, linking loaders, and compilers. Program subroutine linkage; parameter passing and binding. Syntax graphs and parsers. Students will design and program several examples. Prerequisite: CSC 257.

### CSC 358 (S)

#### INTRODUCTION TO DIGITAL SYSTEMS AND MICROPROCESSORS

3 credits

Review of direct current fundamentals, transistors, and diodes. Fundamentals of gates, flip-flops, registers, and counters. Construction projects to illustrate digital principles. Study of a very simple computer using TTL components. Analysis and building of a microprocessor-based computer. Prerequisite: CSC 257.

**CSC 450, 451 (F, S)**  
COOPERATIVE EDUCATION

3-6 credits

Prerequisite: permission of Department Chair.

**CSC 459 (S)**  
SOFTWARE ENGINEERING

3 credits

Basic concept and major issues of software engineering; project planning; cost estimation; requirement definition; software design; implementation issues; programming language features; validation techniques; software maintenance. Requires a team project to design, develop, document, test and maintain a software system. Prerequisites: CSC 254 and 257.

**CSC 470, 471, 472, 472**  
SELECTED TOPICS IN COMPUTER SCIENCE

3 credits

An introductory course to specialized research in computers and computing, concentrating on one particular aspect of computer science. The subject matter will vary from term to term.

**SECTION D:**

**CSC 354 (F)**  
DATA STRUCTURES

3 credits

An in-depth treatment of a variety of data structures and their associated algorithms. Stacks, queues, arrays and their address mapping functions. Linear lists, list operations, sequential and linked storage allocation, and garbage collection. Trees, binary trees, tree operations, and use of trees in sorting and searching. Multi-linked structures. Dynamic storage allocation: files and file structures; hash codes and comparison of search methods. Prerequisites: CSC 254 and 257.

**96**

**CSC 355 (F)**  
DISCRETE STRUCTURES

3 credits

Review of set algebra including mappings and relations; algebraic structures including semigroups and groups; elements of the theory of directed and undirected graphs; Boolean algebra and propositional logic; applications of these structures to various areas of computer science. Prerequisites: CSC 156, MTH 240.

**CSC 356 (F)**  
PROGRAMMING LANGUAGES

3 credits

Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix, and postfix notation; global properties of algorithmic languages including scope of declarations, storage allocation, binding, and subprograms; list processing, string manipulation, data description, and simulation languages; run-time representation of programs and data structures. Prerequisites: CSC 254 and 257.

**CSC 453 (S 1988, 1990)**  
COMPUTER GRAPHICS

3 credits

Introduction to computer graphics, beginning with elementary methods for picture generation. Graphical methods for forming various geometric figures (e.g., lines, circles, polygons). Representations of two- and three-dimensional objects. Other topics include: transformations, windows and clipping, hidden line/surface removal. Prerequisites: CSC 254 and 257.

**CSC 454 (S)**  
ADVANCED DATA PROCESSING AND DATA BASE MANAGEMENT

3 credits

Data base system architecture—data structures, storage structures, and data languages. Alternate approaches to data base management systems—relational approach, hierarchical approach, network approach. Data base security and integrity. Query processing. Prerequisite: CSC 254.

**CSC 455 (S 1989)**  
FORMAL LANGUAGES AND AUTOMATA THEORY

3 credits

Formal languages and their description by grammars and automata: regular, context-free, context sensitive, and unrestricted languages. Deterministic and non-deterministic machines. Finite state machines and their applications. Theory of translation; parsing: LL(K), LR(K) and precedence grammars. Prerequisites: CSC 254 and 257.

**CSC 456 (F 1988)**  
ARTIFICIAL INTELLIGENCE

3 credits

Introduction to LISP; AI in theory: the production system formalism, problem-solving techniques—including tree-searching algorithms, knowledge representation—including the predicate calculus, semantic networks, frames; AI in practice: game playing, expert systems, natural language understanding, learning, robotics. Prerequisites: CSC 254 and 257.

**CSC 457 (S)**  
OPERATING SYSTEMS

3 credits

Principles and concepts of process and resource management in operating systems. I/O programming; interrupt mechanism; memory management; processor management, scheduler; traffic controller; device management and information management and file systems. Concepts will be illustrated in the context of modern computers. Prerequisite: CSC 357.

**CSC 458 (F 1987, 1989)**  
COMPUTER COMMUNICATIONS AND INTERFACING

3 credits

Serial transmission of data. Theory and applications of operational amplifiers. Digital to analog, and analog to digital conversion. Elements of alternating current theory. Active filter theory and modem theory. The course includes several required construction projects. Prerequisite: CSC 358.



## MILITARY SCIENCE

LT COLONEL GEORGE H KELLENBENZ, M.A.

*Professor of Military Science*

Assistant Professors: Fischer, Howe, Russell, Manning

### ROTC

*Enrollment in 100 and 200 level Military Science courses is closed to seniors and open only to juniors with permission of the department chairperson.*

#### **MSC 101 (F)**

MILITARY SCIENCE—YEAR 1, THE HISTORY OF MILITARY ART

1 credit

The art of war from ancient times to the present. A study of military operations and the evolution of military theory and institutions. One hour leadership laboratory.

#### **MSC 102 (S)**

MILITARY SCIENCE—YEAR 1, AMERICAN MILITARY HISTORY

2 credits

Examines the how and why of American involvement in wars from the Revolution to Vietnam. One hour leadership laboratory.

#### **MSC 201 (F)**

MILITARY SCIENCE—YEAR 2, MILITARY GEOGRAPHY

2 credits

A study of tactical military geography to include a study of map reading and geomorphology. Class discusses and practices the essence of orienteering. One hour leadership laboratory.

#### **MSC 202 (S)**

MILITARY SCIENCE—YEAR 2, MILITARY GEOGRAPHY (Continued)

1 credit

**98**

The estimate of national power and the role of geopolitics examined in the framework of American military operations and the national security structure of the U.S. One hour leadership laboratory.

#### **MSC 301 (F)**

ADVANCED MILITARY SCIENCE—YEAR 3, MILITARY LEADERSHIP

3 credits

Introductory course in leadership examining the principles of leadership. Includes a case study of the junior army leader, his roles and responsibilities. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

#### **MSC 302 (S)**

ADVANCED MILITARY SCIENCE—YEAR 3, MILITARY LEADERSHIP (Continued)

3 credits

Analyzes the role of the leader by examining small unit operations of an infantry platoon. After studying the theory of operations, students are placed in leadership positions and given situations to analyze. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

#### **MSC 401 (F)**

ADVANCED MILITARY SCIENCE—YEAR 4, PRINCIPLES OF MILITARY MANAGEMENT

3 credits

Analyzes the principles of management by use of case studies. Stresses the art of communication for success in management. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

#### **MSC 402 (S)**

ADVANCED MILITARY SCIENCE—YEAR 4, PRINCIPLES OF MILITARY MANAGEMENT

(Continued) 3 credits

Management by the junior officer. Includes command and staff responsibilities and relationships, ethics, military law, logistics, maintenance, and administration. One hour leadership laboratory mandatory. Prerequisite: Permission of department chairperson.

**MUSIC**  
(See Fine Arts.)

**NURSING**

GLORIA F. DONNELLY, R.N., M.S.N., Ph.D. Chair  
(See Evening Division Bulletin for listing of courses.)

**PHILOSOPHY**

MICHAEL KERLIN, Ph.D., Chair  
Professors: Kerlin, Mihalich, Sullivan  
Associate Professors: Dallery, Fitzgerald,  
Lashchyk, Strosser  
Assistant Professors: Fallon, Macoretta, Phillips

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**FOUNDATION COURSES**

**PHL 151**

CONCEPTS OF HUMANITY 3 credits

A study of the concepts of humanity which underlie and affect thought, values, and actions in personal life and society.

**PHL 152**

MORAL INQUIRY AND MORAL CHOICE

3 credits

A study of the major moral theories related to how human beings do and ought to make moral decisions. Applications of these moral frameworks to contemporary moral issues will be an integral part of the course.

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**CORE COURSES**

**99**

**Approved sequences for Core I:**

General Topics: PHL 201, 204, 206, 212, 267, 269. Special Interest: PHL 303, 305, 308, 309, 310, 311, 312, 313, 322, 323, 325, 326, 327, 328, 329. You may take one or two courses in philosophy to fulfill your Core IA requirement.

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**Required for Major in Philosophy: 12 courses**

- Foundation course
- PHL 311 or 323
- PHL 264 or 325
- Three from: PHL 326, 327, 328, 329, 330, 480
- Four other courses beyond the foundation level.

**PHL 201 (F, S)**

ART AND CREATIVITY (AESTHETICS)

**CORE I**

3 credits

A consideration of the philosophical basis for making judgments about the art experience. Designed to acquaint the student with the major features and thinkers of the classical, romantic, and modern periods.

**PHL 204 (164) (F, S)**

CRITICAL THINKING

**CORE I**

3 credits

Aims at developing the skill of analyzing, interpreting and criticizing arguments from a variety of disciplines. Topics include: clarification of concepts, distinguishing between conclusions and reasons for conclusions, evaluation of arguments, and the recognition of fallacies.

**PHL 206 (S)**

SOCIAL AND POLITICAL PHILOSOPHY

**CORE I**

3 credits

A critical examination of the nature of society through the reading and discussion of primary philosophical texts. Themes include: person and society, the foundation of the political order, human rights and law, justice and society, the natural and the social sciences.

**100**

<b>PHIL 212 (F)</b> CURRENT ETHICAL ISSUES	<b>CORE I</b> 3 credits
An application of ethical principles to present-day moral problems and controversies. Issues include sexual behavior, nuclear war, abortion and economic justice. Readings drawn mainly from contemporary philosophical authors.	
<b>PHIL 213 (F, S)</b> PHILOSOPHY OF SPORTS	3 credits
A philosophical investigation of sports and athletics and their significance as a basic human experience. Topics include sports and the achievement of human excellence; sports as a basis of social and cultural structure; and the analysis of sports in philosophical movements such as Marxism and existentialism.	
<b>PHIL 222 (F, S)</b> LOVE AND HUMAN SEXUALITY	3 credits
A philosophical exploration of human love and sexuality. Attention will be given to the connection between the philosophical approach and that of other disciplines. Works by authors such as Plato, Aristotle, Thomas Aquinas, Santayana, Ortega y Gasset and Sartre will be read.	
<b>PHL 223 (S)</b> PERSPECTIVES ON DEATH	3 credits
A study of various philosophical strategies for coming to terms with human death. Western and non-Western sources will be used. Philosophical views on death applied to problems such as aging and dying, suicide and euthanasia, the medical conquest of death, and definitions of death. Of particular value for students choosing careers in the health professions.	
<b>PHIL 267 (167) (F,S)</b> PHILOSOPHICAL APPROACHES TO GOD	<b>CORE I</b> 3 credits
A study of philosophical positions relating to questions about the existence of God. Themes discussed include various concepts of God; the possibility of proof for the existence of God; and the philosophical dimensions of the religious experience.	
<b>PHIL 269 (169) (F,S)</b> WORK AND CULTURE	<b>CORE I</b> 3 credits
A philosophical consideration of the relationship between work and other dimensions of human life. Topics include: work and society, work and rationality, work and morality, work and play, work and creativity, work and alienation.	
<b>PHIL 303 (203) (S)</b> AMERICAN PHILOSOPHY	3 credits
Broadly conceived as American intellectual history, the history of ideas that shape the American angle of vision: from the Puritan's errand into the wilderness to the birth of the Great Yankee, from democracy as the "last, best hope of Earth" to William James' courage to believe.	
<b>PHIL 305 (205) (F)</b> PHILOSOPHY OF COMMUNISM	<b>CORE I</b> 3 credits
An historical and systematic study of the writings of Karl Marx emphasizing the Hegelian origins of his critique of capitalism, the problem of ideology, the Marxian view of social science, and the development of Marxism as theory and practice at the hands of Engels, Lenin, and Stalin.	
<b>PHIL 308 (208) (S)</b> THE PHILOSOPHY OF HISTORY	<b>CORE I</b> 3 credits
A study of some of the principal viewpoints about historical knowledge and historical development. Problems discussed include: subjectivity and objectivity, causality and explanation, perspective and relativity in history. The great schemes of historical interpretation also considered.	
<b>PHIL 309 (209) (S)</b> THE PHILOSOPHY OF THOMAS AQUINAS	<b>CORE I</b> 3 credits
A study of the philosophical problems which arose in the Middle Ages and of the solutions proposed by Thomas Aquinas. Texts principally from <i>Essence and Existence</i> and the <i>Summa Theologiae</i> .	

**PHL 310 (210) (S)**  
EXISTENTIALISM**CORE I**  
3 credits

An approach to contemporary phenomenology and existentialism through philosophers such as Husserl, Heidegger, Sartre, and Merleau-Ponty. Topics include: the phenomenological method, human existence as process, meaning vs. absurdity, and the overcoming of alienation.

**PHL 311 (F 1987)**  
PROBLEMS OF KNOWLEDGE**CORE I**  
3 credits

A systematic investigation into the sources, limits, and nature of knowledge. Topics include: meaning and its relation to truth of statements; nature and criteria of truth, role of observation, perspective and conceptualization in the justification of knowledge claims. *Required of all philosophy majors.*

**PHL 313 (166) (S 1988)**  
REASON AND REALITY**CORE I**  
3 credits

A study of the basic relationships between thought and reality. Themes discussed include: skepticism and truth; rationality and selfhood; and knowledge and the various manifestations of existence.

**PHL 323 (F 1988)**  
THE PHILOSOPHY OF SCIENCE**CORE I**  
3 credits

The impact of scientific revolutions on observations and rationality in science studied through the writings of Kuhn and Feyerabend and others. Critical examinations of such concepts in science as scientific method, induction, verification, and falsification.

**PHL 325 (S)**  
SYMBOLIC LOGIC**CORE I**  
3 credits

A study of the following aspects of symbolic logic: truth functional logic, quantificational logic, logic of relations, proofs of adequacy for the system used, undecidability and incompleteness, the relationship between modern logic and Aristotelian logic.

**PHL 326 (F 1987)**  
HISTORY OF WESTERN PHILOSOPHY: ANCIENT PERIOD**CORE I**  
3 credits

Philosophy in ancient Greece and Rome, with concentration on Plato and Aristotle.

**PHL 327 (S 1988)**  
HISTORY OF WESTERN PHILOSOPHY: MEDIEVAL AND  
RENAISSANCE PERIODS**CORE I**  
3 credits

From St. Augustine through the age of scholasticism to the Renaissance.

**PHL 328 (F 1988)**  
HISTORY OF WESTERN PHILOSOPHY: MODERN PERIOD**CORE I**  
3 credits

From Hobbes and Descartes to the Enlightenment, with concentration on the rationalists, empiricists, and Kant.

**PHL 329 (S 1989)**  
HISTORY OF PHILOSOPHY: CONTEMPORARY PERIOD**CORE I**  
3 credits

A survey of the principal philosophical movements of the last 100 years. Logical positivism, linguistic analysis, phenomenology, existentialism, and deconstructionism.

**PHL 330 (F)**  
THE GREAT PHILOSOPHERS**CORE I**  
3 credits

An in-depth study of a single major thinker from the philosophical tradition. Emphasis on the critical reading of texts, although attention will be given to the historical setting of the thinker and his/her work.

**PHL 337 (S 1988)**  
PROFESSION AND PROFESSIONALISM**CORE I**  
3 credits

An exploration of the relationships of professions to the social order, the shifting definitions of profession, and the types of professional/client relationships. Recommended for pre-professional majors in business, medicine, law, social work, nursing and allied health professions.

**101**

**PHL 338 (S 1989)**

CONCEPTS OF LIBERATION: WOMEN AND MEN

**CORE I**

3 credits

A critical study of the different accounts of inequality and oppression in the lives of men and women. Special attention to the ideals of liberation in the context of family, work and sexual relations and to the question of innate, or natural, differences between the sexes.

**PHL 350 (221) (F)**

BUSINESS ETHICS

**CORE I**

3 credits

Business practices evaluated in the light of ethical principles. Special concern given to moral dimensions of management decision making and to the ethical problems of consumerism and government control.

**PHL 470**

SPECIAL TOPICS

3 credits

**PHL 480 (S)**

SEMINAR

3 credits

An investigation of a philosophical theme chosen each year by the department. Students will write a paper on the theme and present their work to the seminar. The seminar has for its purpose the integration of previous philosophical study. *Required of philosophy majors; open to others with approval of chairman.*

**PHYSICS**

(See Geology and Physics.)

**102****POLITICAL SCIENCE**ROBERT J. COURTNEY, Ph.D., *Chair**Professors:* Courtney, Dillon*Associate Professor:* Nathans*Assistant Professors:* Hill, McGovern

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**FOUNDATION COURSE****POL 150 (F, S)**

AMERICAN FEDERAL GOVERNMENT 3 credits

An examination of the organization and functions of the federal government of the United States; a study of the separation of powers and relations with states. *Required of all political science majors.*

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**CORE COURSES****Approved courses for Core II:**

*American Government:* POL 240, 241, 242, 243, 330, 331, 332, 341, 343, 344. *Foreign Government:* POL 230, 231, 233, 332, 333, 334. *Political Theory:* POL 232, 342.

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*All political science courses except 345-346 and 480-481 are open to all students.*

**Required for Major in Political Science: 15 courses**

- POL 150, 230, 231, 232, 480, 481
- Seven political science electives
- ECN 150-201

**POL 230 (104) (S, F)**

WESTERN EUROPEAN POLITICS

**CORE II**

3 credits

A political analysis of the constitutional principles and governmental organizations of England, France, and Germany. *Required of all political science majors.*

**POL 231 (220) (F, S)**

INTERNATIONAL RELATIONS

**CORE II**

3 credits

An analysis of the basic patterns and major factors underlying international politics. Consideration of current international problems. *Required of all political science majors.*

**POL 232 (222) (S)**

SURVEY OF POLITICAL THOUGHT

**CORE II**

3 credits

An analysis of the major political writers from Plato to the present. Emphasis on each author's concept of the state, its function and end, and his solution to the problem of the reconciliation of the common good with individual freedom. *Required of all political science majors.*

**POL 233 (230) (F 1987)**

POLITICAL GEOGRAPHY

**CORE II**

3 credits

A survey of the geographic factors influencing the real and potential economic and political development of nations.

**POL 240 (S 1988)**

AMERICAN STATE GOVERNMENT

**CORE II**

3 credits

A study of the state as a partner in the federal system; the states' constitutional development, and principles underlying state governmental organization, reorganization, and functions.

**POL 241 (S 1989)**

MUNICIPAL GOVERNMENT

**CORE II**

3 credits

A study of the organization and functions of government at the municipal level and an analysis of trends and types of municipal governments.

**POL 242 (S)**

AMERICAN POLITICAL PARTIES

**CORE II**

3 credits

A view of the political problems of the United States as revealed in the major and minor political parties that have arisen during the country's history.

**POL 243 (F)**

AMERICAN CONSTITUTIONAL LAW I

**CORE II**

3 credits

A case study approach utilizing Supreme Court decisions provides an analysis of the governmental structure of the United States. Principal topics include judicial review, separation of powers, federalism, extent and limit of Congressional and Presidential authority, the commerce and fiscal clauses of the Constitution. (Required of all Public Administration majors).

**POL 320-321(F, S)**

URBAN STUDIES

3-6 credits

Identical with ECN 320-321.

**POL 330 (231) (F 1987)**

U.S. FOREIGN RELATIONS I

**CORE II**

3 credits

A study of the diplomatic and military instruments of American foreign relations, the formal and informal powers and processes by which policy is made, and the basic patterns of national interest and policy prior to World War II.

<b>POL 331 (232) (S 1988)</b> U.S. FOREIGN RELATIONS II	An analysis of the main problems of American foreign relations from 1945 to the present.	3 credits
<b>POL 332 (234) (F 1986)</b> THE POLITICS OF THE SOVIET UNION	An examination of the major elements that determine the nature of Soviet polity, including the role of the Communist Party, the relationship between the party and government, the growth of dissent within the Soviet Union, and future prospects for Soviet society.	<b>CORE II</b> 3 credits
<b>POL 333 (235) (F 1987, 1989)</b> LATIN AMERICAN POLITICS	An examination of the common institutions and political practices that characterize Latin American governments. Mexico examined as an illustration of these institutions and practices.	<b>CORE II</b> 3 credits
<b>POL 334 (238) (F 1986)</b> THE MIDDLE EAST AND THE WORLD.	A study of modern Middle Eastern politics, with emphasis on the origins, issues and present stage of the Arab-Israeli conflict; an analysis of Western and Soviet foreign policies in the area, with emphasis on America's mideast diplomacy.	<b>CORE II</b> 3 credits
<b>POL 341 (244) (S 1988)</b> THE LEGISLATIVE PROCESS: THE U.S. CONGRESS	The role of Congress in the legislative process; its internal operations and external political relations; especially with the President. Comparison of the characteristics of Congress with those of state legislatures and European legislative bodies.	<b>CORE II</b> 3 credits
<b>POL 342 (245) (F 1989)</b> MODERN POLITICAL IDEOLOGIES	The interrelation of theory and practice and the development of "ideological" thinking explored through an analysis of the conceptions of man, history, state, and revolution espoused by Marxism-Leninism, Fascism-National Socialism, and Anarchism. Readings from original sources: Marx, Lenin, Mussolini, Hitler, Sorel, Camus, and Guevara.	<b>CORE II</b> 3 credits
<b>POL 343 (246) (S)</b> AMERICAN CONSTITUTIONAL LAW II	A case study approach utilizing Supreme Court decision provides an analysis of the individual's relationship to the government under our Constitution. Principal topics include rights under the early Constitution, the incorporating process, First Amendment rights, procedural rights of the accused, equal protection and political rights. (Strongly recommended: Constitutional Law I).	<b>CORE II</b> 3 credits
<b>POL 344 (247) (S 1987)</b> BUREAUCRATIC POLITICS AND ADMINISTRATION	Analysis of bureaucracy within the national and urban context; internal characteristics and external political relationships with executives and legislatures, including unionization of bureaucratic personnel, budgetary relationships, innovation and the relationships of bureaucracy with clientele groups and the general public.	<b>CORE II</b> 3 credits
<b>POL 345 (251) (F, S)</b> POLITICAL SCIENCE INTERNSHIP I	Designed to give students the opportunity to apply their academic interest to relevant positions in the community. Placements will be provided and the students will be expected to give a comprehensive report on their experiences. A foundation in political and social science is a prerequisite for this course.	3 credits
<b>POL 346 (252) (F, S)</b> POLITICAL SCIENCE INTERNSHIP II	With the permission of the Director, Dr. Philip McGovern, a second semester involving a different experience may be undertaken.	3 credits

**POL 370 (F, S)** 3 credits  
SPECIAL TOPICS OR INDEPENDENT STUDY  
As interests indicate, special programs may be introduced into the curriculum discussing highly specialized problems for group or independent study.

**POL 480 (F)** 3 credits  
SEMINAR I  
A study of methods of research and scholarly writing. Directed research and reports on individual assignments. *Required of all political science majors.*

**POL 481 (S)** 3 credits  
SEMINAR II  
Supervised research and writing on major topic. Weekly presentation and group discussion of individual papers. Submission of written thesis. *Required of all political science majors.*

## **POLITICAL SCIENCE/PUBLIC ADMINISTRATION**

(Administered by the Chair, Political Science Department)

**Required for Major in Political Science / Public Administration: 15 courses**

- POL 150, 232, 240, 241, 243, 344, 480, 481
- ECN 150, 201, 213 or QNT 213.
- ACC 101, 102
- CSC 151
- HRM 300

**105**

## **PSYCHOLOGY**

JOSEPH F. BURKE, F.S.C., Ph.D., *Chairman*

Professors: Dondero, McCarthy, Rooney

Associate Professors Burke, Falcone, Filicetti, Gilligan, Kovatch, Oden,

Schreiner, Smith

Assistant Professor Pritchard

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## **FOUNDATION COURSE**

**PSY 150** 3 credits  
GENERAL PSYCHOLOGY

Introduction to the scientific study of human behavior. Emphasis on methods of psychological research and principles and theories developing from this research.

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## **CORE COURSES**

### **Approved courses for Core II:**

PSY 150, 201, 203, 206, 315. You may choose one or two psychology courses to fulfill Core II requirements.

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**Required for Major in Psychology:** Track 1: 12 courses; Track 2: 13 courses; Track 3: 13 courses

**Track 1: Pre-Graduate**

- PSY 150, 201, 210, 211, 319, 320
- Four electives in psychology (including at least two at the 400-level)
- Two courses in mathematics

**Track 2: General Studies**

- PSY 150, 210, 211, 340 or 319, 364
- Six electives in psychology (including two at the 400-level)
- Two courses in mathematics

**Track 3: Work Psychology**

Preparation for careers and graduate study in Consumer Psychology, Human Factors, Industrial/Organizational Psychology, and Personnel Psychology.

- PSY 150, 201, 210, 211, 306, 319, 320, 360, 460, and SPSS course
- Two courses in mathematics; CSC 151 or 155

**PSY 201 (F, S)**

## ADVANCED GENERAL PSYCHOLOGY

3 credits

Introduction to selected content areas of experimental psychology, including psychobiology, sensation and perception, and cognitive processes. Prerequisite: PSY 150.

**PSY 203 (F, S)**

## DEVELOPMENTAL PSYCHOLOGY

3 credits

A general study of the development of behavior and the human personality from conception through adulthood; special emphasis on childhood and adolescence. Prerequisite: PSY 150.

**106****PSY 205 (S)**

## AGING: PSYCHOLOGICAL ISSUES

3 credits

An introduction to the scientific study of aging. Theories, principles and research findings that are of a psychological nature will be studied. Prerequisite: PSY 150.

**PSY 206 (F, S)**

## PERSONALITY DYNAMICS AND ADJUSTMENT

3 credits

An analysis of the human system, the dynamics of individual behavior, and a consideration of resources necessary for effective living as they are related to a better understanding of personal adjustments in healthy persons developing toward maturity. Prerequisite: PSY 150.

**PSY 210 (F)**

## STATISTICS I

3 credits

An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisites: MTH 111-112 or equivalent.

**PSY 211 (S)**

## STATISTICS II

3 credits

An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: PSY 210 or equivalent.

**PSY 301 (F, S)**

## EDUCATIONAL PSYCHOLOGY

3 credits

Identical with Education 203.

**PSY 306 (S)**

## TESTS AND MEASUREMENTS

3 credits

The selection, administration, and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest, and personality. Prerequisites: PSY 150, 210 or equivalent.

**PSY 312 (F 1988)****BAYESIAN STATISTICS FOR SOCIAL SCIENTISTS**

3 credits

Clarification of the meaning of statistical calculations and analysis from the Bayesian point of view. Data descriptions and the problem of inferences are contrasted with traditional statistical treatments. Prerequisite: A two-semester course in introductory statistics.

**PSY 315 (F, S)****ABNORMAL PSYCHOLOGY**

3 credits

An introductory course surveying the principal forms of the major and minor mental disorders, with emphasis on the causes, symptoms, and treatment. An analysis of the over-all problem of mental illness and a study of certain borderline personality and behavioral patterns and other forms of psychological deviation. Prerequisite: PSY 150 or permission of chair.

**PSY 319 (F)****EXPERIMENTAL PSYCHOLOGY I**

4 credits

A laboratory course designed to introduce the student to the classical psychological experiments and the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes, and emotions. Prerequisites: PSY 201 and 211 or permission of chairman. Three hours lecture, two hours laboratory.

**PSY 320 (S)****EXPERIMENTAL PSYCHOLOGY II**

4 credits

Lectures and discussions on modern experimental psychology. For laboratory work, the student plans, designs, and performs an original research experiment. Prerequisite: PSY 319. Three hours lecture, two hours laboratory.

**PSY 325 (S)****READINGS IN PSYCHOLOGY**

3 credits

Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar fashion. Prerequisite: PSY 150.

**107****PSY 330 (S)****COGNITIVE PSYCHOLOGY**

3 credits

A systematic study of the research and theories developed to explain human memory, language, thinking, and consciousness. Prerequisite: PSY 201.

**PSY 340 (S)****METHODOLOGY FOR STUDIES AND RESEARCH**

3 credits

A study of the nature of scientific research methodology; emphasis on critical reading and evaluating reports of studies and research; development of skill in writing review papers; utilization of research literature in the behavioral sciences; data analysis and critiques of extant research. Prerequisites: PSY 150, 210.

**PSY 350 (F, S)****EFFECTIVE COMMUNICATION**

3 credits

A deepening understanding of, and personal growth experiences in, the art of interpersonal communication. Attention given to listening and empathy, discussion and decision making, confrontation and conflict management, attitudinal systems and Gestalt, verbal and non-verbal communication, creative goal-setting, individual and social growth.

**PSY 360 (S)****INDUSTRIAL AND BUSINESS PSYCHOLOGY**

3 credits

A study of those psychological principles, methods, and techniques which are especially relevant to an understanding of human relations and efficiency in business and industry. Prerequisite: PSY 150.

**PSY 364 (S)****SOCIAL PSYCHOLOGY**

3 credits

A study of the facts and theories dealing with the phenomena of social behavior. Focuses on individual behavior as it affects and is affected by the behavior of others. Prerequisite: PSY 150.

<b>PSY 406 (F, S)</b> COUNSELING THEORIES AND PRINCIPLES	3 credits
Theories and principles of the counseling process. The dynamics of human change. The objectives, work, and continuing problems of counseling. Prerequisite: PSY 150.	
<b>PSY 407 (F)</b> THEORIES OF LEARNING	3 credits
An analysis of the principal theories of learning in the light of recent experiments in animal and human learning. Prerequisite: PSY 201.	
<b>PSY 408 (F)</b> THEORIES OF PERSONALITY	3 credits
A systematic study of the principal theories of personality with particular emphasis on recent trends, research methodology, and personality measurement. Prerequisite: PSY 150.	
<b>PSY 409 (F)</b> HISTORY AND SYSTEMS OF PSYCHOLOGY	3 credits
An examination of the beginnings and development of psychology as a science and profession and of its various approaches, systems, fields, problems and applications; the historical roots of these in philosophy, biology, and national culture. Prerequisite: junior or senior standing as psychology major.	
<b>PSY 420 (S)</b> PHYSIOLOGICAL PSYCHOLOGY	3 credits
An introduction to the neurological and endocrinological bases of behavior. Consideration of sensory and motor processes, motivation and emotion, learning and memory. Prerequisite: PSY 201. Two hours lecture, two hours laboratory.	
<b>108</b>	
<b>PSY 460 (S 1987)</b> HUMAN FACTORS	3 credits
Human Factors deals with the study of people in their working and living environments, and the application of this knowledge to practical problems encountered in the home, business and industry. Prerequisites: PSY 211, 360.	
<b>PSY 470-471. (F, S)</b> SPECIAL TOPICS IN PSYCHOLOGY	3-6 credits
Content will vary each year to present the psychological underpinnings of issues on the contemporary American scene. Such topics as the psychology of drug use, of prejudice, of human sexuality, of attitude change, and of religion will be treated in various semesters. Prerequisite varies with topic.	
<b>PSY 480 (F)</b> SEMINAR I	3 credits
Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: junior or senior standing as psychology major.	
<b>PSY 481 (S)</b> SEMINAR II	3 credits
A continuation of PSY 480 with primary focus on topics judged by students and faculty to be particularly relevant for present day psychology majors. Prerequisite: junior or senior standing as psychology major.	
<b>PSY 485-486 (F, S)</b> PSYCHOLOGICAL RESEARCH OR PRACTICUM	3-6 credits
Offers the student the option of conducting a research project under the direction of a faculty member or of obtaining practical experience serving in an institutional setting under professional supervision. Students preparing for careers or graduate study in clinical areas of psychology can select from numerous practicum placements. Students in the Work Psychology track may select a practicum placement available with Sun Oil Company or other local businesses. Program planned in advance. Prerequisite: junior or senior standing as a psychology major. One or two terms.	

## RELIGION

DAVID P. EFROYMSON, Ph.D., Chair  
Professors: Biechler, Efroymson, Kelly  
Associate Professors: Davis, Grosnick,  
Keenan, McGinniss, Schepers  
Assistant Professor: Halligan

Lecturers: Boni, Devlin, Echelmeier, Heine, Luetzow,  
Mowrey, Reizburg, Van Everbroeck

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### FOUNDATION COURSES

#### REL 151 (F, S)

THE BIBLE 3 credits

A study of the foundational religious literature of Jews and Christians: its origins and growth; the history and the religious and theological ideas of the people who produced these writings, and the Near-Eastern cultures and literature which contributed to them.

#### REL 153 (F,S)

THE DYNAMICS OF RELIGION 3 credits

A study of the diverse patterns of thought, behavior, and social structures which express human religious experience. Designed to foster an understanding of the importance of religion in society, in social change, and in personal identity and transformation.

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### CORE COURSES

#### Approved for Core 1:

You may fulfill the requirements for Core I A by selecting any one or two religion course(s) except REL 151, 152, 153, 225, 323, 243, 480.

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#### Required for Major in Religion: 14 courses

- REL 151 and either 152 or 153.
- Eleven religion electives, including at least one from each of the four study areas (biblical, theological, historical, and religious) and REL 480. At least one of these electives must be in a religious tradition outside of Judeo-Christianity.
- Religion majors may choose the major program as described above or:  
*Religion-Education:* The religion major requirements (chosen, with the guidance of the Chairperson, in view of a career in teaching), plus EDC 203, 204, 301, 470-1-2.  
*Note:* Religion is a subject not accredited by the various states; therefore the Pennsylvania Instructional I Certificate is not issued to Religion-Education majors. This forms no impediment whatever to placement in schools which teach religion.

## SECTION A: BIBLICAL STUDIES

### REL 212 (S)

#### THE PROPHETS OF ANCIENT ISRAEL

**CORE I**

3 credits

Prophecy and prophetical literature in the Bible. Prophecy as an institution in the Near East; its unique development in Israel. Theological message of the biblical prophets.

### REL 214 (310) (F)

#### THE SYNOPTIC GOSPELS

**CORE I**

3 credits

How did the Gospels develop? How historically reliable are they? What value have they as sources for a study of the person of Jesus of Nazareth? What is Form Criticism? Source Criticism? The state of contemporary biblical scholarship. These points will be illustrated through a guided study in the synoptic Gospels: Matthew, Mark, Luke.

### REL 215 (S)

#### THE GOSPEL OF JOHN

**CORE I**

3 credits

What is a gospel? The place of the Fourth Gospel in the context of early Christianity. A study of the meaning, literary technique, and theological themes of John. Brief study of other works in the Johannine group of writings.

### REL 216 (F)

#### ST. PAUL

**CORE I**

3 credits

A study of the earliest Christian literature: the letters of Paul: background and context—the primitive church; analysis of the texts; problems and tentative solutions; Paul's contribution to Christianity yesterday and today.

### REL 311 (211)

#### CONTEMPORARY BIBLICAL ISSUES

**CORE I**

3 credits

**110**

Specific problems in Israel or in New Testament Christianity as reflected in their literature. Content to be specified at registration.

## SECTION B: THEOLOGICAL STUDIES

### REL 220 (S)

#### THE CHURCH ISSUES AND PROBLEMS

**CORE I**

3 credits

A brief study of the origins of the Church, and an examination of the various modes in which Church has been and can be understood. Social structure and dynamics of the Church and her mission in today's world.

### REL 221 (F)

#### ISSUES IN CHRISTOLOGY. JESUS AND HIS ACHIEVEMENT

**CORE I**

3 credits

The person, mission, and achievement of Jesus in the New Testament. Post-biblical church reflections on the tradition. Contemporary attempts to reinterpret Christology and to draw existential implications.

### REL 222 (F)

#### THE SACRAMENTS

**CORE I**

3 credits

An inquiry into the origin and development of the Christian symbols highlighting some of the problems of modern sacramental theology.

### REL 223 (F)

#### CONTEMPORARY MORAL ISSUES

**CORE I**

3 credits

Study/discussion of a variety of moral perspectives on selected current issues: War. Racism. Sexual Conduct. Abortion. Euthanasia. Women's Rights. Capital Punishment.

### REL 224 (S)

#### HUMAN EXISTENCE AND RELIGIOUS BELIEF

**CORE I**

3 credits

An inquiry into the nature of religious faith and into the issues that surface when believers come alive to the realities of modern life. The relation between action and contemplation. The question of faith and history. The combination of religious belief and morality. The influence of faith on social institutions and vice versa.

**REL 225 (325) (F, S)****A CONTEMPORARY THEOLOGY OF MARRIAGE**

3 credits

Critical investigation and re-evaluation of traditional assumptions about the meaning and function of human sexuality and inter-sexual relationships. The historical and ideological circumstances in which they developed. The construction of a theology of marriage which takes critical account of contemporary physical and psycho-social sciences.

**REL 320****THEOLOGICAL ISSUES****CORE I**

3 credits

Selected theological topics of current controversy. Content to be specified at registration.

**REL 321 (S)****PEACE, JUSTICE, AND THE CHRISTIAN TRADITION****CORE I**

3 credits

Fundamental principles which have influenced religious thinking about and action for peace and justice. Principal focus on Western Christian thought, but peace and justice traditions of other world religions may also be included.

**REL 322 (S)****WORSHIP, ART, AND LIFE****CORE I**

3 credits

A study of the shape and practice of worship, especially in Roman Catholic liturgy. Skills in planning and criticizing liturgy. Past and present role of arts in liturgy: architecture, music, dance, etc. The Japanese tea ceremony demonstrating how ritual operates in a foreign but analogous ceremony.

**REL 323 (F, S)****BIOMEDICAL PROBLEMS**

3 credits

Study/discussion of selected ethical dilemmas arising from recent advances in biology, medicine, and the behavioral sciences. E.g., Abortion/Euthanasia. Death. Genetic Intervention. Informed Consent. Human Experimentation. *Presupposes no special knowledge of biology or medicine.*

**REL 324 (F)****CHRISTIAN SPIRITUALITY: THE SEARCH FOR GOD, FREEDOM, AND COMMUNITY****CORE I**

3 credits

Historical and reflective study of the ways people in the Christian West strive to find God, and thus to achieve self-integration in the context of ecclesial community. The origins and development of monasticism; the clerical ideal; the emergence of lay spiritualities; the means employed in reaching for perfection (asceticism, prayer, mysticism) and the call to discipleship.

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**SECTION C: HISTORICAL STUDIES****REL 330 (S)****EARLY CHRISTIANITY: CRISIS AND PROCESS****CORE I**

3 credits

An exploration of the issues around which Christianity of the first four centuries took form: the struggle with the Roman Empire; the confrontation with Hellenistic philosophy and religion; Jewish Christianity, gnosticism, and the development of "orthodoxy." The effect of all this on the origin and shape of certain ideas and institutions such as Christology, church, papacy, interpretation of history, and sex.

**REL 331 (F)****DEVELOPMENT OF CHRISTIANITY IN THE MIDDLE AGES****CORE I**

3 credits

A study of religion in the Middle Ages and Renaissance periods concentrating on such popular movements as the Cathars, Waldensians, Fraticelli, Lollards, and Beguines, as well as on such phenomena as millenarism, reformation, and conciliarism. Relation of these movements and phenomena to the evolution of art, the inquisition, papacy, universities, and monasteries. The religious and ethical implications of humanism and capitalism.

**REL 332 (239) (F)****THE REFORMATION AND THE CATHOLIC RESPONSE****CORE I**

3 credits

A critical audition of the religious voices of the Reformation era, with attention to their origins, context, and peculiarities. Special treatment to the important reformers both on the Continent (Luther, Calvin, Zwingli, Bucer) and in the British Isles (Cranmer, Knox), as well as to pertinent Catholic thought (Council of Trent).

**REL 334 (332) (S)** **CORE I**  
3 credits  
**MODERN RELIGIOUS THOUGHT**

A critical examination of the great religious movements of the 19th and 20th centuries that have most contributed to the present religious situation. The encounter between Christian thought and philosophy and natural science. The confrontation between Existentialism and religious Idealism; the Oxford Movement; the Marxist critique of religion; the origins of biblical criticism; and the clash between conservatism and liberalism in Protestant and Catholic Church circles.

**REL 336 (230) (S)** **CORE I**  
3 credits  
**RELIGION IN AMERICA**

A study of the major religious movements within the Roman Catholic and Protestant churches in the United States from the American Revolution to the present day. Theological implications for the churches of such movements as the American Revolution, the Great Awakening, the Abolitionist Movement, the Civil War, the Gospel of Wealth, the Great Depression, World War II, Vatican II, and the nuclear threat.

## **SECTION D: RELIGIOUS STUDIES**

**REL 240 (F)** **CORE I**  
3 credits  
**THE GREAT RELIGIONS OF THE WORLD**

A survey of the great world religions: Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism and Taoism. Topics to be covered: world view, basic doctrines and practices, major figures, the role of women, and impact on contemporary world culture. Readings from the scripture of each tradition, as well as secondary sources.

**112** **REL 243 (S)** 3 credits  
**RELIGIOUS ATTITUDES IN MODERN LITERATURE**

An introduction to the meeting between religion and literature as found in the writings of Dostoevsky, Kafka, Bernanos, Eliot, Camus, Beckett, Kazantzakis, and in some of the poetry of Yeats, Auden, Frost, Roethke. A variety of literary forms will be examined to discern the writers' religious intentions. Topics include: Can an "atheist" be religious? Is God present in a book which makes no mention of him? What is meant by the term "religious"? Traditional issues—the problem of evil, the moral dilemma, human freedom—explored. Identical with ENG 243.

**REL 244 (F, S)** **CORE I**  
3 credits  
**WOMEN AND RELIGION**

The influence of religion through history in the shaping and legitimization of women's roles and identity. The religious experience of women, and the extent to which feminine religiousness and holiness might be different. The recovery or refashioning of leadership roles. The feminist critique of "patriarchal" religion and theology; the consequent alternatives of disaffiliation or reconstruction.

**REL 340 (240) (F)** **CORE I**  
3 credits  
**THE RELIGIONS OF INDIA**

A study of the origin, development, and structure of Hindu traditions. Vedic beginnings. Major reform movements. Sects and schools of interpretation. Yoga, bhakti, and mystical traditions. Recent developments.

**REL 341 (241) (S)** **CORE I**  
3 credits  
**BUDDHISM AND THE RELIGIONS OF CHINA AND JAPAN**

A study and discussion of the rise of Buddhism and its subsequent division into Theravada and Mahayana Buddhism. Its Chinese and Japanese mutations (Pure Land and Zen). Confucianism, Taoism, Shinto, Modern phenomena: Soka Gakkai and Maoism.

**REL 342 (242) (F, S)** **CORE I**  
3 credits  
**JUDAISM**

A study of the historical origin, roots, and developments of Judaism as a religion, as well as a cultural, civil, and ethnic group. The course will evaluate Jewish social and educational values as well as religious problems and attitudes among Jews today.

**REL 344 (244) (F)**  
ISLAM

**CORE I**  
3 credits

Background and development: the prophet, the Qur'an, Muslim traditions and values; theological development, inner tensions, contemporary movements, confrontation with the non-Muslim world.

## SECTION E: SPECIAL STUDIES

**REL 270, 370, 470 (F, S)**  
SPECIAL TOPICS IN RELIGION

**CORE I**  
3 credits

Content of the course will be announced whenever it is offered. May be repeated for credit.

**REL 480 (F)**  
SEMINAR

**CORE I**  
3 credits

An introduction to scholarly research through the selection, writing, and small-group presentation of formal papers in a specific area determined by the instructor. Required of all religion majors; open to others approved by chairman. Prerequisite: 15 hours of religion. May be taken in junior or senior year.

## SOCIOLOGY, SOCIAL WORK, AND CRIMINAL JUSTICE

JOHN F. CONNORS, Ph.D., *Chair*  
*Professor:* J. F. Connors  
*Associate Professor:* Coffee  
*Assistant Professors:* Bird, J. T. Connors,  
Hornum, Montgomery, Otten, Stull  
*Instructor:* Coleman  
*Lecturers:* Brunn, Tri Nguyen

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## FOUNDATION COURSES

**SOC 150**  
THE SOCIAL BASIS OF HUMAN  
BEHAVIOR 3 credits

An introduction to the structure and functioning of society with emphasis on American society but with cross cultural comparisons. Theoretical concepts, empirical findings, and research methods are stressed.

**SOC 151**  
SOCIAL CONFLICT AND SOCIAL  
PROBLEMS 3 credits

An exploration of how social conflict and social organization affect human well-being and of social justice. Topics: mental health, personal safety, economic well-being, and intergroup relations in an industrial society and a developing nation.

## CORE COURSES

### Approved courses for Core II:

SOC 203, 207, 208, 210 (SWK 210), 212,  
213, 305, 306, 308, 309, 310, 363, 364 (SWK  
363, 364).

**Required for Sociology Majors:** SOC 150, 301-302, 310, 480-481, three 200-300 level sociology courses, and three electives in sociology, social work or criminal justice. Also recommended: ECN 150, 201; POL 150; CSC 151 or 155.

**SOC 111 (F, S)**  
MARRIAGE AND FAMILY

3 credits

Study of marriage and the family as social institutions. A consideration of the historical development of the family, variations of family structure in contemporary societies, and current trends in American family patterns.

<b>SOC 203 (F)</b> SOCIOLOGY OF WORK	<b>CORE II</b> 3 credits
Analysis of the social organization of work in modern societies, the concept of career, the development of professionalization, the nature of work-satisfaction and the impact of bureaucratization. Occupational subcultures such as law, medicine, public service, the military, and education considered.	
<b>SOC 207 (S)</b> THE CITY: CONFLICT AND CHANGE	<b>CORE II</b> 3 credits
A study of world cities; their growth and impact on personality; urban violence and its control; fragmentation, economic problems and city/suburban conflicts. Efforts at neighborhood development and metropolitan planning will also be discussed.	
<b>SOC 208 (F)</b> POPULATION AND ECOLOGY	<b>CORE II</b> 3 credits
A study of the effects on the quality of life caused by population growth and patterns of consumption in developing and industrial nations. Trends in mortality and fertility, causes and consequences of these trends, and population policies explored.	
<b>SOC 210 (S)</b> SEX, POWER, AND SOCIALIZATION	<b>CORE II</b> 3 credits
An exploration of male and female gender roles in the contemporary United States. An examination of socialization in childhood and adulthood, sexual politics, and power structures and dynamics within the family and the workplace. Special attention to the effects of class and race on gender role formation. Identical with SWK 210.	
<b>SOC 212 (F, S)</b> ETHNICITY AND RACE IN THE UNITED STATES	<b>CORE II</b> 3 credits
An analysis of the structure and dynamics of dominant/minority relations in historical and contemporary contexts. Emphasis on the sociological analysis of ethnic and racial discrimination and inquiry into the sources of conflict between dominant and minority groups.	
<b>SOC 213 (F)</b> HUMAN NATURE, CULTURE AND SOCIETY	<b>CORE II</b> 3 credits
An anthropological study of the origin and descent of humans and of the role of culture in explaining the variations and constants in human behavior.	
<b>SOC 301 (F)</b> SOCIAL STATISTICS I	3 credits
An introduction to such descriptive statistics as central tendency measures, variability, correlation and regression. Analysis of cross-tabulated data will be facilitated through the utilization of computer software programs. No prior knowledge of computers assumed.	
<b>SOC 302 (S)</b> SOCIAL STATISTICS II	3 credits
Basically a course in inferential statistics beginning with a discussion of probability, binomial distributions, and normality. Both parametric and non-parametric statistics covered. Continued use of computer technology in the analysis of survey research results as well as those collected using qualitative methodologies. Prerequisite: SOC 301 or permission of instructor.	
<b>SOC 305 (F)</b> SOCIETY AND THE INDIVIDUAL	<b>CORE II</b> 3 credits
The study of the influence of society and culture, as mediated by the social group, on the social, cultural, and personal behavior of the individual. Prerequisite: SOC 150 or 151, or permission of instructor.	
<b>SOC 306 (F)</b> BUREAUCRACY AND SOCIETY	<b>CORE II</b> 3 credits
An examination of the nature and effects of modern, large-scale organizations. Focus on both private sector corporations and public sector bureaucracies. Prerequisite: SOC 150 or 151, or permission of instructor.	

<b>SOC 308 (S)</b> CLASS, STATUS, AND POWER	<b>CORE II</b> 3 credits
A study of economic, social and political inequalities. Emphasis on the causes, patterns, and consequences of such inequalities. The United States compared with other industrial as well as non-industrialized nations. Prerequisite: SOC 150 or 151, or permission of instructor.	
<b>SOC 309 (S)</b> MEDICAL SOCIOLOGY	<b>CORE II</b> 3 credits
A basic survey of how individuals are socialized to think about, and are treated by, those in the health professions. A cross-national perspective will be assumed. Topics include: malpractice, population control, human experimentation, deviance and stigmatization.	
<b>SOC 310 (F, S)</b> SOCIOLOGICAL THEORY	<b>CORE II</b> 3 credits
A survey of the development of social thought from August Comte to contemporary theorists. An attempt to see the evolution of social theory within the social context of the theorist's milieu. Prerequisite: SOC 150 or 151, or permission of instructor.	
<b>SOC 312</b> SOCIAL CHANGE AND SOCIAL MOVEMENTS	<b>CORE II</b> 3 credits
An examination of the dynamics of social change, of sustained collective movements seeking change, and of the reactions they generate.	
<b>SOC 363-364 (F, S)</b> SOCIAL POLICY I and II (Identical with Social Work 363-364.)	<b>CORE II</b> 3 credits
<b>SOC 270, 370, 470 (F, S)</b> SPECIAL TOPICS IN SOCIOLOGY	3 credits
Designed to cover special or emerging interests in sociology. Topics have included: sociology of conflict, the Holocaust and its causes, computers and society, juvenile delinquency, and gerontology.	
<b>SOC 480 (F)</b> RESEARCH SEMINAR I	3 credits
An overview of research methodology. Such research data collection methods as questionnaire designs, interviewing and observations will be discussed. Topics covered will include the ethics of human experimentation and evaluation techniques. Offered in alternate years.	
<b>SOC 481 (S)</b> RESEARCH SEMINAR II	3 credits
Original research in one area of social reality employing a research method of the student's choosing. Offered in alternate years.	

## CRIMINAL JUSTICE

FINN HORNUM, M.A., *Director*  
LAURA OTTEN, Ph.D., *Field Coordinator*

**Required for Criminal Justice Majors:** CRJ 221, 222, 385, 485-486 and two additional criminal justice courses: SOC 150, 301-302, 310 and two 200-300 level sociology courses designated within the department. Also recommended as appropriate to career objectives: ACC 101, 102; CSC 151, 153; MGT 201, 307; POL 150, 240, 241, 243, 246, 247; PSY 150, 206, 306, 315, 364, 406, 408; SWK 361-362, 363-364.

<b>CRJ 221 (F)</b> CRIME AND ITS CAUSES	3 credits
A study of the sociological and social psychological foundations of crime and delinquency. Topics include: the definition and meaning of crime and delinquency, the etiology of crime and delinquency, the history and development of the criminal law, criminal behavior systems.	

**CRJ 222 (S)****INTRODUCTION TO CRIMINAL JUSTICE**

3 credits

A consideration of law enforcement, the administration of justice and the punishment and treatment of criminals. A survey of the sociological and social psychological processes affecting the criminal justice system. Topics include: the police function, crime prevention programs, the prosecutorial and defense functions, judicial administration and decision-making, institutional and community-based corrections, probation and parole.

**CRJ 223 (S)****CRIMINAL LAW**

3 credits

An exploration of the basic concepts and legal and sociological issues in criminal law. Attention to: development of law, legal elements of crime—both in general and specific offenses; legal requirements for criminal defenses; differing theories of punishment. *Pennsylvania Crimes Code* used as a reference.

**CRJ 270, 370, 470 (F, S)****SPECIAL TOPICS IN CRIMINAL JUSTICE**

3 credits

Designed to address current issues in criminal justice. Topics: gender and criminal justice, criminal procedure, forensic criminology, counseling, and criminal justice administration and research. Students should check with the department whether course meets distribution requirements.

**CRJ 324 (224) (S)****POLICE: ORGANIZATION AND FUNCTIONS**

3 credits

An investigation of the organization, legal powers, and functions of the police. Topics include: police organizational structure, police responsibilities such as patrol, arrest, and investigation, police-community relations, and topical issues on police and society, such as police use of force, police corruption, and required education and training for police.

**CRJ 326 (226) (S)****CORRECTIONS: PRISONS, PROBATION AND PAROLE**

3 credits

Intensive examination of the correctional process in the United States and other countries. Topics include: the objectives of punishment, sentencing policies and procedures, capital punishment, imprisonment and community corrections.

**CRJ 385 (F, S)****THEORIES OF DEVIANCE**

3 credits

An intensive analysis of contemporary theories of deviant behavior. Theories examined through seminar discussions of primary materials and critiqued by consideration of research findings. Social policy implications discussed and specific criminal justice programs considered in the light of these theories.

**CRJ 386 (F)****SYSTEMS OF CRIMINAL BEHAVIOR**

3 credits

Selected criminal behavior systems examined in depth through readings, group projects, field interviews, and field trips. Offerings include such forms of criminal behavior as juvenile delinquency, organized crime, elite deviance, violent crime, crimes without victims, and international terrorism.

**CRJ 485-486. (F, S)****FIELD SEMINAR IN CRIMINAL JUSTICE**

6-12 credits

Field placement in law enforcement, legal and correctional agencies, evaluative seminar sessions with instructors, and completion of a field-oriented project. Students may elect to take both courses in one semester (four days per week, six hours per day in the field and six hours of seminar session per month). Alternatively, students may elect to take the courses sequentially over two semesters (two days per week, six hours per day in the field and two hours seminar per month). Students are placed in criminal justice agencies related to their interests and receive individual supervision by a field supervisor employed by the agency and a faculty liaison person. Prerequisite: CRJ 385.

## SOCIAL WORK

Council on Social Work Education Accredited Baccalaureate Program

SYBIL MONTGOMERY, M.S.S., A.C.S.W., *Director*

PATTY A. COLEMAN, M.S.S., A.C.S.W., *Field Instruction Coordinator*

**Required for Social Work Majors:** SWK 202, 361-362, 363-364, 461-462, 463-464, 465; PSY 150, 203; ECN 203; a political science course: BIO 156, SOC 150, 301-302, 310; and two 200-300 level Professional Development electives.

Students are encouraged to use these and their free electives to build a concentration in their personal areas of interest, e.g., Business Administration, Criminal Justice, Psychology, Sociology, Spanish, Political Science, Urban Studies, Women's Studies.

### SWK 202 (S)

INTRODUCTION TO SOCIAL WORK AND SOCIAL WELFARE

3 credits

Provides a foundation for social service practice and social policy analysis, including a basic understanding of fundamental human needs, of populations at risk in this society, and of the social service delivery system.

### SWK 210 (S)

SEX, POWER AND SOCIALIZATION (Identical with SOC 210)

CORE II

3 credits

### SWK 270, 370, 470 (E, S)

SPECIAL TOPICS IN SOCIAL WORK

3 credits

Designed to address contemporary issues in social policy and social work practice. Topics: gerontology, mental health, child welfare, family violence, and others. Students are advised to check with the Program Director about current offerings and about whether course meets distribution requirement.

### SWK 361 (F)

SOCIAL WORK THEORY AND PRACTICE I

3 credits

The generalist framework of social work practice. A range of generalist techniques studied as preparation for practice with individuals, groups and other systems. Principles of interviewing and developmental helping skills. Roleplaying, case studies, and videotaping will be used. Instruction and practice in social welfare and related agencies which provide a range of generalist services. Structured agency supervision provides opportunity for students to develop skills and recognize the effect their own intervention has upon clients' lives. Students spend the equivalent of one full day per week in field instruction. Prerequisite: SWK 202 or permission of instructor.

### SWK 362 (S)

SOCIAL WORK THEORY AND PRACTICE II

3 credits

The Task Centered Model applied to micro and macro level practice situations. Concepts from the biological, social and behavioral sciences examined to provide an informed use of the model in a range of agencies which provide generalist services. Structured agency supervision provides opportunity for students to develop skills and recognize the effect their own intervention has upon clients' lives. Students spend the equivalent of one full day per week in field instruction. Prerequisite: SWK 361.

### SWK 363 (F)

SOCIAL POLICY I

CORE II

3 credits

An historical look at the development of the welfare state in the United States and analysis of contemporary social policies. Particular attention to traditions, laws, and court decisions concerning poor people, racial minorities, immigrants, and women. Identical with SOC 363.

**SWK 364 (S)**  
SOCIAL POLICY II

**CORE II**  
3 credits

Explores contemporary social policies in the U.S. Topics selected from the following: health, aging, mental health, child welfare, family, welfare, and educational policy. Domestic and international alternatives to current policies discussed. Advocacy and lobbying processes are analyzed and practiced. Identical with SOC 364.

**SWK 461-462 (F, S)**  
SEMINAR IN SOCIAL WORK I AND II

3-6 credits

Building upon the knowledge, attitudes, and skills developed in the junior-level skills and methodology courses, these senior seminars deepen students' understanding of generalist intervention strategies. While focusing on both micro and macro level practice, these courses will be organized around social work processes: assessment, planning, intervention and evaluation. Students will be given an opportunity to evaluate their own practice through empirical testing.

**SWK 463-464 (F, S)**  
FIELD INSTRUCTION I AND II

6-12 credits

Instruction in advanced practice skills. Students spend two full days per week in educationally-directed field placements. To be taken concurrently with SWK 461-462.

**SWK 465 (F)**  
PROFESSIONAL CONSIDERATIONS IN SOCIAL WORK

3 credits

Questions of values and ethics underlying professional social work practice are explored through lectures, analysis of practice, or participation at professional meetings. Philosophical, political, and sociological perspectives will provide the framework for analysis.

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### URBAN STUDIES MINOR

Coordinated by: DR. RICHARD T. GERUSON, Economics Department

**Required:**

- Three courses from the following:
  - SOC 212, 306, 308;
  - HIS 244, 324, 333;
  - ECN 404;
  - POL 241, 242; EDC 330;
  - ENG 302;
  - PSY 364.
- Three courses from the following:
  - ECN 203;
  - HIS 337;
  - SOC 207, 208;
  - ECN/POL/SOC 320, 321.

## WOMEN'S STUDIES MINOR

Coordinated by: LAURA OTTEN, Ph.D., Sociology and Criminal Justice

Designed as a minor for men and women students of any major who wish to examine the influence of gender as a cultural and historical variable and to explore the quality of women's lives.

### Required:

- Up to four courses from:
  - ENG 160, 302, 335;
  - HIS 328, 329;
  - SOC 210.
- At least two courses from:
  - CRJ 270, 370;
  - ENG 435;
  - PSY 270;
  - REL 244;
  - PHL 338;
  - PHY 270.



# Business Administration

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The School of Business Administration offers a four-year undergraduate program for men and women leading to the Bachelor of Science degree. The program of studies is designed to expose the student both to a fundamental body of knowledge and standard analytic, communications, and decision-making skills as well as to current developments in business theory and practice. To ensure that these are contemporaneous, the program is regularly evaluated in terms of: standards established by the American Assembly of Collegiate Schools and Business; standards and norms endorsed by various professional bodies such as the American Institute of Certified Public Accountants, the American Management Association and the American Marketing Association; and an ongoing dialogue with managers and business professionals in the Delaware Valley. The program prepares graduates to move from the University into management/professional positions in business, government and nonprofit organizations or into graduate study.

Course requirements and electives are structured to provide: (1) a solid foundation in the arts and sciences as background for professional study in business administration; (2) a business core consisting of study in the several areas of business administration and in analytical methods and techniques; and (3) an opportunity to concentrate in depth in a professional area as a basis for future career development. The foundation and core studies provide the student with an understanding of self, the humanistic and philosophic aspects of man, the traditions of Judeo/Christian thought, and the social, mathematical, and computing sciences relevant to business practice. The business core and professional studies provide a broad understanding of the theory and practice of administration in large and small organizations.

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#### **DEGREE PROGRAM**

The program leading to a Bachelor of Science degree in Business Administration consists of 120 credits (minimum 38 courses), about half of which may be taken in business and economics. The liberal arts and science studies tend to be concentrated in the first two years and the professional studies in the last two years. In the junior year a student begins to specialize in professional studies, which include:

Accounting	Management Information Systems
Business Administration	Marketing
Finance	Operations Management
Health Care Administration	Organizational Behavior
Human Resource Management	Quantitative Analysis
International Studies	Risk Management & Insurance

In addition to the program of academic studies, students are encouraged to be in contact with business practitioners and organizations. This dialogue is achieved through a variety of channels. Students are encouraged to undertake at least one co-op experience. The Executive-in-Residence coordinates the campus appearance of a significant number of corporate speakers during the course of the academic year. The eighteen business executives on the Business Advisory Board provide a valuable resource for both students and faculty to draw upon. Finally, students are encouraged to begin formulating and testing career plans through the Career Planning and Placement Office at an early point in their university years.

## THE CORE CURRICULUM

The Core Curriculum provides you with an opportunity to build a strong foundation for the future. It encourages you to work out a system of values rooted in the best thinking of the great minds of the past and present.

Whatever your eventual major, your core courses will have allowed you to acquire a basic body of knowledge and habits of thinking that are independent of your career interests. The Core Curriculum at La Salle has been recently revised after several years of study and debate on the part of students, faculty, and administrators. This new curriculum will give you a real advantage as you attempt to build your life and your career after graduation. It will help you *learn how to learn* by giving you experience in researching information, understanding relationships, and communicating effectively with others.

While the Core allows you some freedom of choice, it includes guidelines which should provide coherence in your college education. The Core Curriculum prepares you to adapt to the ever-changing world by exposing you to a well-thought-out plan aimed at encouraging four years of intellectual and personal growth. The Core Curriculum consists of three parts: Foundation, Core I, and Core II.

**Foundation Courses** (7-9 courses, normally completed by end of sophomore year)

These courses are most directly related to the liberal education approach that is basic to La Salle's aims and traditions. Depending upon your previous preparation, you will take foundation courses in writing, literature, history, computer science, philosophy, science, religion, and social science.<sup>1</sup> The writing and computer science courses are intended to give you the tools you need; the others will acquaint you with some of the best that has been written or thought in each field. The University may waive a writing course or a computer science course if your background so warrants.

**Core I Courses** (6 courses, normally completed by end of junior year) *Foundation courses may not satisfy this requirement.*

These courses are an opportunity to build upon the foundations you have in place. In Core I A, you take *three* courses in Religion and Philosophy (two in one subject and one in the other).

In Core I B, you also take a sequence of three courses in **one** of these:

- History
- Fine Arts (Art or Music)
- Foreign Languages (Classical languages, French, German, Italian, Russian, Spanish)
- Literature

Each sequence has been planned by the individual department to provide growth in the knowledge and skills of that subject.

**Core II Courses** (2 courses from a subject or combination of subjects listed below. May not be in your major subject or in the subject you chose for your Core I sequence.)

- Fine Arts (Art or Music)
- Foreign Language (Must be in same language.)
- History
- Literature
- Social Science (Economics, psychology, political science, sociology)<sup>2</sup>

### Mathematics Requirements (2 courses)

Business students are required to take MTH 111 and 112 or equivalent. MTH 111 may substitute for one of the Core I or Core II courses.

<sup>1</sup>Business students take ECN 150 as the Social Science Foundation Course.

<sup>2</sup>Business students take ECN 201 as one of the Core II requirements.

## **BUSINESS CORE**

The Business Core is intended to introduce the student to the four functional areas in business—accounting, finance, management and marketing—as well as to commonly used analytical concepts—economic and quantitative analysis and law. The following courses constitute the core:

Principles of Accounting (ACC 101, 102)  
Managerial Economics (ECN 302)  
Principles of Finance (FIN 201)  
Financial Management (FIN 300)  
Law of Contracts (LAW 201)

Organization and Management of  
Human Resources (MGT 201)  
Operations Management (MGT 300)  
Principles of Marketing (MKT 201)  
Business Statistics (QNT 213)

## **PROFESSIONAL STUDIES**

These courses provide an intensive learning experience in one facet of business and serve as a basis for future career development.

Professional specializations are offered in:

Accounting  
Finance  
Human Resource Management  
Management Information Systems

Marketing  
Operations Management  
Organizational Behavior  
Quantitative Analysis

The professional option ordinarily consists of 4 courses in one functional area beyond those courses required in the business core. The accounting option, however, requires 8 courses. This is intended to help the student to better prepare either to pass the Certified Public Accounting (CPA) examinations or to embark on an accounting career in industry. You may choose your professional option upon matriculation or at any time during the first two years of study.

Professional minors are offered in:

Business Administration  
Health Care Administration

International Studies  
Risk Management and Insurance

Students who wish to do so have the option to pursue a dual specialization or a single specialization and a minor. In either case you must obtain the permission of both Chairpersons.

## **FREE ELECTIVES**

A student may choose to concentrate free electives in a particular field or may use these electives to diversify his background or broaden his interests. To achieve a balance between liberal arts and professional studies, the school recommends that a student take no more than 12 credits as electives in business administration or economics. Quantitative Analysis 214 is recommended for students intending to apply to graduate school.

## MODEL ROSTER FOR ACCOUNTING

### FRESHMAN YEAR

Fall*	Spring
ACC 101	ACC 102
MTH 111	MTH 112
FND	CSC 151
ENG 107 or 108	ENG 108 or FND in literature <sup>1</sup>
PHL	REL

### SOPHOMORE YEAR

Fall	Spring
ACC 201	ACC 202
FND	BUS. CORE
QNT 213	LAW 201
ECN 150	ECN 201
CORE	CORE

### JUNIOR YEAR

Fall	Spring
ACC 303 or 304	ACC 304 or 303
BUS. CORE	BUS. CORE
FIN 300	ECN 302
CORE	CORE
CORE	CORE

### SENIOR YEAR

Fall	Spring
ACC 405	ACC 406
ACC 407 or 480	ACC 480 or 407
MGT 300	ELC
ELC	ELC
ELC	ELC

## MODEL ROSTER FOR OTHER PROFESSIONAL OPTIONS

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### FRESHMAN YEAR

Fall*	Spring
ACC 101	ACC 102
MTH 111	MTH 112
FND	FND
ENG 107 or 108	ENG 108 or
PHL	FND in literature <sup>1</sup>
	REL

### SOPHOMORE YEAR

Fall	Spring
CSC 151	BUS. CORE
BUS. CORE	LAW 201
QNT 213	CORE
ECN 150	ECN 201
CORE	CORE

### JUNIOR YEAR

Fall	Spring
MAJOR	MAJOR
BUS. CORE	BUS. CORE
BUS. CORE	BUS. CORE
CORE	CORE
CORE	CORE

### SENIOR YEAR

Fall	Spring
MAJOR	MAJOR
ELC	ELC

\*Courses may be rostered in either semester unless they are two-course sequences like MTH 111-112, ACC 101-102, ACC 201-202, ECN 150-201.

<sup>1</sup>Students who take both ENG 107 and 108 will take the Foundation Literature course in place of a CORE requirement in sophomore year. The CORE requirement will then replace an elective in senior year

# PROGRESS RECORD

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## FOUNDATION (7-9 courses)

1. Whiting I<sup>1</sup> \_\_\_\_\_
2. Whiting II \_\_\_\_\_
3. Literature<sup>2</sup> \_\_\_\_\_
4. Religion \_\_\_\_\_

5. Philosophy \_\_\_\_\_
6. Social Science \_\_\_\_\_ ECN 150
7. History \_\_\_\_\_
8. Science \_\_\_\_\_
9. Computer Science<sup>3</sup> \_\_\_\_\_

<sup>1</sup>May be waived by decision of the University before you begin course work.

<sup>2</sup>May be in English or in Foreign Language Literature in English translations.

<sup>3</sup>May be waived by challenge examination before you begin course work

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## CORE I (5-6 courses)

**IA**  
Religion and Philosophy

**IB** (3 courses from any one of these):  
Fine Arts History  
Foreign Language Literature

1. PHL \_\_\_\_\_
2. REL \_\_\_\_\_
3. REL or PHL \_\_\_\_\_

## MATHEMATICS REQUIREMENTS

MTH 111<sup>4</sup> \_\_\_\_\_  
MTH 112 \_\_\_\_\_

<sup>4</sup>May substitute for one Core 1 or Core 2 course

## CORE II (ECN 201 and one other):

Social Science \_\_\_\_\_ ECN 201  
Fine Arts \_\_\_\_\_  
Foreign Language \_\_\_\_\_  
History \_\_\_\_\_  
Literature \_\_\_\_\_

## BUSINESS CORE (10 courses)

1. ACC 101 \_\_\_\_\_
2. ACC 102 \_\_\_\_\_
3. FIN 201 \_\_\_\_\_
4. MGT 201 \_\_\_\_\_
5. MGT 300 \_\_\_\_\_
6. LAW 201 \_\_\_\_\_
7. QNT 213 \_\_\_\_\_
8. QNT 214 \_\_\_\_\_

## PROFESSIONAL STUDIES (4 or 8 courses<sup>5</sup>)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

## ELECTIVES (4-10 courses)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

<sup>5</sup>The Accounting Option requires 8 courses (24 credits) in professional studies



# Course Descriptions

## ACCOUNTING

JOSEPH MARKMANN, C.P.A., *Chair*

Associate Professors: Hanratty, Kaiser, Kennedy, Markmann, Reardon, Sweeney

Assistant Professors: Brazina, Massamini, Zook

Lecturers: Fitzgerald, P. Guerin

### Required for Professional Option in Accounting: 8 courses

- ACC 201, 202, 303, 304, 405, 406, 407, 480

### Required For Minor In Accounting: 6 courses

- ACC 101, 102, 201, 202 and any 2 accounting courses at the 300 or 400 level

#### ACC 101 (F)

PRINCIPLES OF ACCOUNTING I

3 credits

Training in the fundamental principles of recording business transactions, including a study of the presentation and interpretation of the financial data of a single proprietorship, partnership, and corporation.

#### ACC 102 (S)

PRINCIPLES OF ACCOUNTING II

3 credits

The relationship between understanding accounting procedures and using accounting data effectively; the interrelationships between financial statements and the methods of accumulating data for these statements and how the particular accounting methods used influence business decisions. Problems include depreciation methods, inventory valuation, alternative methods of obtaining capital and the measurement and control of costs within the corporate entity. Prerequisite: ACC 101.

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#### ACC 201 (F)

ACCOUNTING THEORY I

3 credits

Theories and problems involved in proper recording of transactions and preparation of financial statements. Review of accounting cycle, discussion of financial statements, analysis of theory as applied to transactions affecting current assets, current liabilities, long-term investments, and their presentation on the balance sheet. Prerequisite: ACC 102.

#### ACC 202 (S)

ACCOUNTING THEORY II

3 credits

Detailed presentation of theory as applied to plant and equipment, intangible assets, long-term debt, capital stock and surplus; correction of errors of prior periods; analysis of financial statements; statement of application of funds. Prerequisite: ACC 201.

#### ACC 303 (F, S)

COST ACCOUNTING

3 credits

Basic principles applied to job cost and process cost systems. Topics include: purchasing and issuing of materials and maintenance of perpetual inventory records, control of labor, methods of distributing factory overhead expenses, evaluation of problems involved in shrinkage and idle time, forms used in job and process cost systems, and discussion of the place of cost accounting in modern enterprises. Prerequisite: ACC 102.

**ACC 304 (F, S)****AUDITING**

3 credits

A practical presentation of modern audit practices, emphasizing the principles and objectives of an audit. Analysis of the audit basis, the best standards, objective reporting, the adoption of improved accounting standards, business controls, professional ethics, and legal liability. Prerequisite: ACC 202.

**ACC 310 (F)****FINANCIAL STATEMENT ANALYSIS**

3 credits

Comparative analyses by percentages, ratios, trends, graphic reports, and projections applicable to the balance sheet and income statement. Structure and meaning of accounts and peripheral statements such as application of funds and breakeven analysis. Prerequisite: ACC 102.

**ACC 313 (F)****ADVANCED COST ACCOUNTING**

3 credits

Economic, industrial, and managerial aspects of cost accounting with emphasis on flexible budget as basis for cost control; analysis of variance and graphic charts. Study of estimated costs, standard costs, and distribution costs. Prerequisite: ACC 303.

**ACC 405 (F)****ADVANCED ACCOUNTING THEORY AND PROBLEMS I**

3 credits

A study of home office and branch accounting, mergers, acquisitions and preparation of consolidated financial statements, foreign operations. Prerequisite: ACC 202.

**ACC 406 (S)****ADVANCED ACCOUNTING THEORY AND PROBLEMS II**

3 credits

A study of special topics in accounting theory including partnerships, installment sales, estate and trust, and insolvency in connection with realization and liquidation. Prerequisite: ACC 405.

**ACC 407 (F, S)****INCOME TAX**

3 credits

Study of Federal tax code as applied to individuals, partnerships, and corporations including exclusions, inclusions, deductions, gains and losses. Review of fiduciary and estate and gift tax.

**ACC 450 (F, S, Summer)****COOPERATIVE EDUCATION**

3 credits

Consult with department chairman. Prerequisite: ACC 202.

**ACC 480 (F, S)****ACCOUNTING SEMINAR**

3 credits

Research in selected topics of accounting theory. Prerequisite: senior standing.

**ACC 483 (F)****ANALYSIS OF ACCOUNTING STANDARDS**

3 credits

A review of the interaction of Congress, the SEC and accounting bodies (AICPA, APB, and FASB) in the evolution of accounting standards. APB opinions and FASB statements critically evaluated in light of the various objectives of our accounting system. Prerequisite: senior standing and approval of the chairman.

**ACC 484 (S)****ACCOUNTING REVIEW**

3 credits

Serves as capstone to the four-year accounting program. An intensive review of accounting theory, managerial cost, auditing standards, and federal taxation. Emphasis on the direct application of theory through the solving of comprehensive and complex problems in accounting, auditing, and taxation. A thorough review for career development and graduate studies; provides sound preparation for the uniform examination given for certified public accountants. Prerequisite: senior standing and approval of the chairman.

## BUSINESS ADMINISTRATION MINOR<sup>1</sup>

### Required for Minor in Business Administration: 6 courses

- ACC 101, FIN 201, MGT 201, MKT 201
- 2 of the following: FIN 300\*, 301, 306, HRM 300, LAW 201, MGT 300\*, 381, MKT 271, 301, 302, 401\*, QNT 213

\* Has additional prerequisites.

<sup>1</sup>This minor is not available to students in the School of Business Administration.

## FINANCE

KENNETH L. RHODA, Ph.D., *Chair*

*Professor* Barenbaum

*Associate Professors* Buch, Kelly, Rhoda, Schubert, Woods

*Assistant Professors* McCann, Olson

*Instructor* Fisher

### Required for Professional Option in Finance: 4 courses

- FIN 304, 306
- Two courses from among the following: FIN 301, 313, 314, 402, 403, 420, 480
- Application may be made in the Spring semester of the Junior year to participate in the Departmental Honors Program during the Senior year. Six credits are earned in lieu of one Finance elective and one free (non-Finance) elective. Consult department chairman for details.

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### FIN 201 (F, S)

#### PRINCIPLES OF FINANCE

3 credits

The study of money and financial markets including stock and bond markets; commercial banks and their competitors as participants in the market for money and the importance of Federal Reserve policy on their operations.

### FIN 300 (F, S)

#### FUNDAMENTALS OF FINANCIAL MANAGEMENT

3 credits

An introduction to the essentials of financial management with an emphasis on time value of money, capital budgeting, financial statement analysis, financial forecasting, and risk analysis. Prerequisites: ACC 102, MTH 111, QNT 213. (QNT 213 may be taken concurrently.)

### FIN 301 (F, S)

#### INTRODUCTION TO INVESTMENT AND SECURITIES MARKETS

3 credits

The study of security markets with emphasis on the investor. Topics covered: instruments; the organization and functioning of the stock market; security market regulations; and an introduction to security analysis. Prerequisite: FIN 201.

### FIN 304 (F, S)

#### INTERMEDIATE CORPORATION FINANCE

3 credits

A continuation of FIN 300. Application of analytical tools and concepts to the business decision process. Case studies, a computer based financial simulation game, electronic spread sheets, and outside readings are used to bridge the gap between theory and practice. Prerequisite: FIN 300.

### FIN 306 (F, S)

#### FINANCIAL MARKETS AND INSTRUMENTS

3 credits

Analysis of the flow of funds in U.S. financial markets; monetary policy; interest rate determination and the characteristics of money and capital markets and instruments. Prerequisite: FIN 201, 300. (FIN 300 may be taken concurrently.)

**FIN 313 (F)****PENSION AND ESTATE PLANNING**

3 credits

An examination of private pension plans, including historical background, regulatory environment, benefits and costs. Topics include costs computation methods, benefits formulae, inflation impact, plan membership profile, accounting and tax considerations, and management of fund assets including portfolio considerations. Profit sharing plans and individual retirement plans are also covered. Same as RMI 313. Prerequisites: RMI 301 or 303, and FIN 201.

**FIN 314 (F)****RISK MANAGEMENT**

3 credits

Designed to acquaint the student with the nature of risk management and the role of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment. Historical and forecast financial statements are scrutinized for the purpose of risk identification. Same as RMI 314. Prerequisites: RMI 301 and QNT 213 (or equivalent).

**FIN 402 (S)****INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT**

3 credits

Analytical techniques are used to investigate market efficiency and portfolio construction and performance evaluation. Analysis of the bond market, stock market, financial futures, options and international portfolio diversification. Prerequisites: FIN 301 or 306.

**FIN 403 (F, S)****INTERNATIONAL FINANCE**

3 credits

The study of multinational business practice, direct foreign investment, and managerial challenges in operating abroad. Foreign exchange markets and exchange determination; international banking and balance of payments issues. Same as MKT 403. Prerequisites: MKT 201, FIN 201.

**130****FIN 420 (S)****FINANCIAL MANAGEMENT OF THE INSURANCE FIRM**

3 credits

A functional course emphasizing the interrelationships among underwriting, investment, regulation and other aspects of insurance company and insurance agency operations. Dynamic computer models of a property-liability insurer and a life insurer are used to demonstrate effective financial management of the insurance firm. Same as RMI 420. Prerequisites: RMI 301 or 302 and FIN 201.

**FIN 480 (S)****SEMINAR IN FINANCE**

3 credits

Selected topics in the area of finance studied in depth under the direction of staff. Prerequisite: Senior standing.

**HEALTH CARE ADMINISTRATION MINOR**

Coordinated by: Anne Walsh, M.S.W., M.B.A., Accounting Department

*Assistant Professor*: Brazina

*Instructor*: Walsh

*Lecturers*: Adams, Whitman

**Required for Financial Management Option: 6 courses**

- HCA 370, 371, 374, 475, 480
- One course from Business Core or approved list.\*

**Required for Generalist Option: 6 courses**

- HCA 370, 371, 472, 473
- Two courses from Business Core or approved list.\*

\*Approved list: PHL 223, PSY 205, REL 323, SOC 309, RMI 311

**HCA 370 (F, S)****INTRODUCTION TO HEALTH CARE ORGANIZATION  
AND MANAGEMENT**

3 credits

Analyzes the organization and administration of the health care system in relation to regulatory, technological, and financial variables affecting their operation. Managerial tasks of planning, controlling, motivating, and organizing applied to the management of health care institutions.

**HCA 371 (F, S)****LEGAL ASPECTS OF HEALTH CARE DELIVERY**

3 credits

Provides a fundamental orientation to the field of health care law with specific emphasis upon the duties, authority, and personal liability of the administrator in relation to the governing board, staff, and patients. Legislation and current regulations affecting the administration and delivery of services in health care institutions examined in conjunction with the legal and ethical rights of patients.

**HCA 374 (S)****HEALTH CARE ACCOUNTING**

3 credits

Methods for identifying, controlling, and evaluating accounting data for use in health care administration. Comparison of health care accounting and accounting for industrial entities. Contribution margin analysis, budgeting, cost accumulation techniques, and variance analysis. Prerequisites: ACC 101, 102.

**HCA 472 (F)****HEALTH CARE PLANNING AND POLICY ANALYSIS I**

3 credits

Comparative analysis of international health care policies with specific emphasis upon the socio-economic, political, and epidemiology variables influencing health care policy in the U.S. Planning methodologies examined from the perspective of area-wide planners in relation to their impact upon the evaluation of current health care policy in the U.S. Forecasting techniques to project regional and community need for specialized, ambulatory, in-patient, and long-term care services are examined within a systems perspective. Prerequisite: HCA 370.

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**HCA 473 (S)****HEALTH CARE AND POLICY ANALYSIS II**

3 credits

Systems analysis of the various organizational factors influencing institutional policy formulation and managerial decision-making. Roles and relationship of the governing board, medical/professional non-professional staff and administrator discussed in relation to their impact upon institutional policies. Practicum experience and seminar are integral components of this course. Prerequisite: HCA 472.

**HCA 475 (F)****FINANCIAL MANAGEMENT OF HEALTH CARE INSTITUTIONS**

3 credits

Analyzes the financial environment of health care institutions. Sources of revenue such as BC/BS, Medicare/Medicaid, and public grants examined in relation to current operating costs. Alternate methods of financing capital investment (community facilities grants/hospital authority bonds) explored in conjunction with capital expenditure controls such as certificate of need and 1122 requirements. Hospital accounting principles, management reporting systems, and benefit analysis, evaluation applied in the analysis of these topics. Prerequisites: FIN 201, 300; HCA 370, 374.

**HCA 480 (S)****SEMINAR IN HEALTH CARE FINANCIAL MANAGEMENT**

3 credits

Theoretical principles of health care financial management applied in a supervised practicum in a health care institution. Selected topics related to health care financial management and practicum experience examined in the seminar component. Prerequisite: HCA 475.

## INTERNATIONAL STUDIES MINOR

Directed by: Joshua Buch, Ph.D., Finance Department  
(See page 91 for requirements.)

### LAW

*Pre-Law Program coordinated by:* Arthur R. Shuman, Jr.

*Associate Professor:* Domineske

*Assistant Professor:* Shuman

*Lecturers:* Adams, Schubert, Siegel

Law courses may be taken as electives. LAW 201 is required of all business administration students. While there is no pre-law major, certain of these courses may be recommended for pre-law students by the Coordinator.

**LAW 201 (F, S)**

LAW OF CONTRACTS

3 credits

Introduces the students to the more common rules and principles governing business transactions; the rights and duties of individuals resulting from contractual and quasi-contractual obligations.

**LAW 202 (F, S)**

LEGAL ENVIRONMENT OF BUSINESS

3 credits

A study of the politico-legal framework within which business operates. The nature, formation, and application of law to business; the historical development and present constraints upon decision making; the interface of business and the whole of its legal settings. Legal procedure, judicial, legislative, and administrative law considered in perspective.

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**LAW 301 (S)**

LAW OF AGENCY, PARTNERSHIPS, AND CORPORATIONS

3 credits

Common and statute laws relating to the creation, operation, and termination of agencies, partnerships, and corporations. Emphasis on the Common Law of Agency, the Uniform Partnership Act, and the Business Corporation Law of Pennsylvania.

**LAW 302 (S)**

LAW OF SALES AND SALES FINANCING

3 credits

Common and statute laws relating to the sale, purchase, transfer, and bailment of personal property. Emphasis on the Uniform Commercial Code relative to sales, sales financing, and secured transactions. Includes the legal relationship of bailor and bailee, shippers, and common carriers.

**LAW 401 (F)**

LAW OF REAL ESTATE

3 credits

Common and statute law of court process which the real estate salesman and broker encounter daily, including the legal principles applicable to the listing contract, the agreement of sale, mortgages, deeds, leases, adverse possession, easements, licenses, proving and recording title. This course has been accepted by the Pennsylvania Real Estate Commission as fulfilling the course requirement for a salesperson's license.

**LAW 402 (F 1987, F 1989)**

LAW OF NEGOTIABLE INSTRUMENTS

3 credits

Application of the common law of the Uniform Commercial Code to checks, promissory notes, and bills of exchange. The use of commercial paper in security transactions and in the creation of credit. The laws of principal and surety, and insurer and insured as related to the use of commercial paper.

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## MANAGEMENT

JOSEPH SELTZER, Ph.D., Chair

Professors: Goldner, Halpin, Joglekar

Associate Professors: Korzeniowski, MacLeod, Miller, Seltzer, Troxell

Assistant Professors: Meisel, Rappaport, Szabat, Tavana

Lecturer: Mudrick

The management department coordinates the professional options in:

- Human Resource Management
- Management Information Systems
- Operations Management
- Organizational Behavior
- Quantitative Analysis

### HUMAN RESOURCE MANAGEMENT

Professor: Halpin

Associate Professor: Korzeniowski

Lecturer: Marks

The management department coordinates the courses in this area.

**Required for Professional Option in Human Resource Management:** 4 courses

- **Required:** HRM 300, 301, 401
- **Choose One:** HRM 303, 304, or 307

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#### HRM 300 (F, S)

PERSONNEL ADMINISTRATION

3 credits

Designed to train students to analyze existing human resource programs and to adapt and develop procedures and methods which will ensure effective personnel administration. Job analysis; policy determination and administration; selection, promotion and transfer; E.E.O.; health, safety and OSHA.

#### HRM 301 (F, S)

LABOR UNIONS—ORGANIZATION AND ADMINISTRATION

3 credits

Sources of the union movement, its history, structure and function. Development of economic, political and social power; problems involved in the use of this power; management rights; management reaction to unions. Outside readings and term paper required.

#### HRM 303 (F)

EMPLOYMENT PRACTICES AND THE LAW

3 credits

Designed to educate future managers as to the options available in dealing with the individual in the work place. Topics: labor law; arbitration; fair employment practices; and health and safety in the work place. Cases, paper and legal research problems.

#### HRM 304 (S)

WAGE, SALARY, AND BENEFIT ADMINISTRATION

3 credits

Study of compensation policies and practices. Emphasis on job evaluation, rate ranges, incentive plans, and benefit programs. Federal and state laws examined. Field work and legislative research report required.

#### HRM 307 (F, S)

HUMAN RESOURCE STAFFING AND DEVELOPMENT

3 credits

The study of employee hiring procedures and the training of personnel in organizations. Examination of recruiting, selecting and interviewing, and orienting new employees. Emphasis on training and career development programs applied to specific employee groups.

**HRM 401 (S)****COLLECTIVE BARGAINING**

3 credits

A study of the external and internal factors influencing the establishment of labor and management agreements and their day-to-day application to employer-employee problems. Outside readings and student case reports required. Prerequisites: HRM 300 or 301.

**HRM 450****COOPERATIVE EDUCATION**

3 credits

Identical to MGT 450.

**HRM 480****HUMAN RESOURCE INTERNSHIP**

3 credits

A study and evaluation of an organization's human resource policies and program carried out while student is employed part-time as a trainee. A student report will recommend a plan of action to improve the organization policies and their administration.

## MANAGEMENT INFORMATION SYSTEMS

*Associate Professor: Troxell**Assistant Professors: Rappaport, Tavana*

The management department coordinates these courses.

**Required for Professional Option in Management Information Systems: 4 Courses**

- MIS 301, 302, 401, CSC 154

**MIS 301 (F, S)****INTRODUCTION TO INFORMATION SYSTEMS**

3 credits

Definition and role of an information system in the organization with emphasis on the gross design. Long range planning and control, organizational levels, decision making process and systems planning. Stages in information system design: systems requirements, feasibility study, systems analysis, hardware and software capabilities and implementation. Prerequisite: CSC 151.

**MIS 302 (F,S)****MANAGEMENT INFORMATION SYSTEMS DESIGN**

3 credits

Managing the system development process. Detailed coverage of the principles and procedures for the design, implementation and evaluation of information systems. User requirements, performance specification, data collection, input and output design, application programming and testing, implementation planning, training, systems maintenance. Prerequisite: MIS 301.

**MIS 401 (S)****INFORMATION SYSTEMS MANAGEMENT: A PROJECT COURSE**

3 credits

Exposure to application of information systems in real organizations. Developing a complete information system using the structured design approach. Development of alternative designs and systems modeling. Computer hardware and software requirements. Prerequisites: MIS 301, CSC 154, or permission of instructor.

## OPERATIONS MANAGEMENT

*Professor: Joglekar**Associate Professor: Troxell**Assistant Professor: Rappaport, Szabat, Tavana*

The management department coordinates the courses in this area.

**Required for Professional Option in Operations Management: 4 Courses.**

MGT 304 or 305

MGT 401 or 404 or 480

2 of the following: MIS 301, QNT 301, 302, 303

(See course listings under Management Information Systems and Quantitative Analysis)

## ORGANIZATIONAL BEHAVIOR

*Professors:* Goldner, Halpin  
*Associate Professors:* Korzeniowski, MacLeod, Miller, Seltzer  
*Assistant Professor:* Meisel  
*Lecturer:* Mudrick

The management department coordinates the courses in this area.

**Required for Professional Option in Organizational Behavior:** 4 Courses.

3 of the following: MGT 303, 306, 307, 350, 381, HRM 300, HRM 307

1 of the following: MGT 401, 404, 480

(See course listings under Human Resource Management)

### **MGT 201 (F, S)**

#### ORGANIZATION AND MANAGEMENT OF HUMAN RESOURCES

3 credits

Consideration of issues of leadership, motivation, communications, groups, organization structure and design, job design and other topics relating to management of organizations. Review of the historical development of management thought. Experiential approach supplemented with cases and readings.

### **MGT 300 (F, S)**

#### INTRODUCTION TO OPERATIONS MANAGEMENT

3 credits

Basic concepts of production/operations management including standardization of product/services, the distinction between product-oriented and process-oriented production systems, and the principles of planning, organizing and control for operating managers. Topics include: forecasting, capacity planning, product mix, plant layout, work methods, inventory theory. Exposure to quantitative techniques such as the break-even model, decision trees, linear programming, exponential smoothing, line balancing, and the economic order quantity model. Use of prepackaged computer programs. Deals with several manufacturing and service industries. Also discusses differences between the U.S. and the Japanese production systems. Prerequisites: MTH 111, 112, and QNT 213.

### **MGT 303 (F)**

#### CREATIVE THINKING AND DECISION MAKING

3 credits

Principles and techniques of how to think creatively; creative exercises. Complex cases for realistic decision making analyzed and evaluated in writing. Comprehensive reports required. Prerequisites: MGT 201, 300, Business Core.

### **MGT 304 (F)**

#### PRODUCTION PLANNING AND CONTROL

3 credits

Inventory control systems, PERT/TIME, PERT/COST, design of production control system, product mix problems, transportation problems and scheduling, forecasting and planning, automation and related problems. Applications to manufacturing industries. Prerequisite: MGT 300. Not to be taken if MGT 305 is taken.

### **MGT 305 (S)**

#### PLANNING AND CONTROL IN SERVICE INDUSTRIES

3 credits

Selected topics in operations planning and control including: forecasting, PERT, queuing theory, line balancing and optimal overbooking in a service situation. Concepts such as the distinction between high-contact and low-contact services, services for people versus services to people, and system-focus versus people-focus in service design are discussed. Applications to several service industries including hospitals, banks, post-offices, schools, social service agencies. Prerequisite: MGT 300. Not to be taken if you took MGT 304.

### **MGT 306 (F, S)**

#### CORPORATE PLANNING AND MANAGEMENT CONTROL

3 credits

The nature and principles of corporate planning, relationship of planning to management control, and the structure and process of management control in organizations. Prerequisite: MGT 201.

**MGT 307 (S)****ORGANIZATIONAL ANALYSIS**

3 credits

Develops an understanding of the interaction of organizational structure and processes. Examines relationship of internal and external environments. Studies organizational design and presents current theories as practical tools in analyzing specific organizations through readings and case studies. Prerequisite: MGT 201.

**MGT 350 (F, S)****EFFECTIVE COMMUNICATION**

3 credits

An examination of the process of communication in personal and organizational settings. Focus on the individual's styles and patterns of communicating, verbal and nonverbal modes, self-image, listening, perception, and barriers to effective communication. Emphasizes building communication skills through active participation in experiences and discussions in class. Limited enrollment. Course generally equivalent with PSY 350. Prerequisite: permission of instructor.

**MGT 381 (F, S)****MULTINATIONAL MANAGEMENT**

3 credits

Study of the conduct of business in foreign countries from a managerial point of view. Topics pertaining to the multinational industrial and commercial activities of American enterprises presented and discussed. The United States' involvements and relations with foreign organizations such as OPEC, OCED, and ECM analyzed. United Nations regulations, commitments, and protections examined. Prerequisite: MGT 201.

**MGT 401 (F, S)****BUSINESS POLICY**

3 credits

Intended as a capstone course in business administration. Integration of backgrounds acquired from accounting, finance, production, personnel, and marketing, strategic planning and implementation; analysis and discussion of actual or simulated situations. Prerequisite: senior standing.

**MGT 404 (F, S)****SMALL BUSINESS CONSULTING**

3 credits

The actual art and practice of managing a small enterprise. Concepts and methods for decision making and being competitive. Actual cases with live situations and outside speakers from all areas—business, government, and organized labor—impinging on the small entrepreneur today. Prerequisites: MGT 201, 300, Business Core.

**MGT 450 (F, S, Summer)****COOPERATIVE EDUCATION**

3 credits

A paid, managerial job (minimum duration: 16-week full-time equivalent) in an area firm or government agency. Appropriate job related learning assignments under faculty supervision. Consult department chair.

**MGT 480 (S)****SEMINAR IN MANAGEMENT**

3 credits

Emphasis on modern, positive management concepts and practices. Class discussion and analysis of best-managed companies in the U.S. and overseas. Integrates all management and other business courses. Comprehensive report required. Emphasis on modern, positive management concepts and practices. Class discussion and analysis of best-managed companies in the U.S. and overseas. Integrates all management and other business courses. Comprehensive reports required. Prerequisite: senior standing.

## QUANTITATIVE ANALYSIS

Associate Professors: Miller, Troxell  
Assistant Professor: Szabat

The Department of management coordinates the courses in this area.

### Required for Professional Option in Quantitative Analysis: 4 courses

- QNT 214, 301, 302, 303

#### **QNT 213 (E, S)**

##### INTRODUCTION TO BUSINESS STATISTICS

3 credits

Basic statistical methods used in the analysis of business and economic decision problems. Emphasis on valid applicability of techniques, sound interpretation of statistical results, as well as successful execution of statistical methods. Topics include: descriptive statistics, both graphical and numerical; probability and probability distributions; sampling distributions; statistical estimation and hypothesis testing; and simple regression and correlation. Students will be introduced to a microcomputer statistical software package. Identical with ECN 213.

#### **QNT 214/ECN 214 (F, S)**

##### STATISTICAL TECHNIQUES IN ECONOMICS AND MANAGERIAL DECISION-MAKING

3 credits

Advanced statistical methods used in the analysis of economic and business decision problems. Emphasis on the role of statistics in economic and managerial decision-making, the identification of appropriate and valid statistical techniques to be used in the decision-making process, sound interpretation of statistical results, and successful execution of statistical methods. Topics: hypothesis testing; analysis of cross-classified data; analysis of variance; multiple regression and correlation; and time series analysis. Introduction to use of the SPSS<sup>®</sup> statistical computer package. Prerequisite: QNT 213.

#### **QNT 301 (F)**

##### QUANTITATIVE TECHNIQUES IN DECISION-MAKING

3 credits

Basic quantitative methods used in analysis and decision-making. Emphasis on the appropriate use of a quantitative method (model) in the decision-making process as well as the successful execution of various mathematical models. Case studies facilitate understanding of the material and its applicability to real world problems. Topics: probability concepts, Bayes Theorem, decision tree analysis, utility theory, linear programming, network programming, dynamic programming, queuing models and simulation. Introduction to a management science software package on the microcomputer. Prerequisites: QNT 213, MGT 300.

#### **QNT 302 (S)**

##### STATISTICAL QUALITY ASSURANCE

3 credits

Control charts for variable and attributes, acceptance sampling plans; costs of quality. Prerequisite: QNT 213.

#### **QNT 303 (S)**

##### TOPICS IN APPLICATION OF STATISTICS

3 credits

Selected topics in forecasting; regression of time series data, classical analysis of time series data such as the decomposition method, exponential smoothing, and Box-Jenkins methods. Prerequisite: QNT 214.

## MARKETING

ANDREW G. BEAN, Ph.D., Chair  
Associate Professors: McCloskey, Reifsteck, Swoyer  
Assistant Professors: Bean, Javie  
Instructors: Dunseth, German  
Lecturers: Eisenberg, Liss, Remley, Willig

### Required for General Option in Marketing: 4 Courses

- MKT 301, 302, 401, 402

#### MKT 201 (F, S)

##### PRINCIPLES OF MARKETING

3 credits

Principles and factors relating to the marketing functions in the American economy. The nature, significance and functions of marketing; consumer motivation; behavior and buying problems; wholesaling and retailing of consumer goods; marketing industrial goods and raw materials; market research and merchandise development; buying, selling, price policies and practices; channels of distribution; and governmental relationships to marketing.

#### MKT 301 (F)

##### PERSONAL SELLING

3 credits

The importance and practice of individual selling in the economy. Sales personality, the phases of a sales presentation, types of buyers, and ethics in salesmanship. Prerequisite: MKT 201.

#### MKT 302 (S)

##### ADVERTISING AND PROMOTIONAL MANAGEMENT

3 credits

**138** Economic and social aspects of promotion, including the important methods and techniques of research which form the basis of any promotional campaign; a practical treatment of advertising copy, layout and media; effectiveness of advertising, advertising departments and the advertising agency. Prerequisite: MKT 201.

#### MKT 303 (S)

##### SALES MANAGEMENT

3 credits

The activities of a sales manager in directing and controlling a sales force; recruiting, selecting, training, compensating, motivating, and supervising salesmen; establishment of sales territories, quotas, and budgets. Prerequisites: MKT 201 and junior standing.

#### MKT 304 (F)

##### INDUSTRIAL MARKETING

3 credits

Products, services, and administration related to industrial marketing of capital equipment, technology, and commodity items as well as systems. Planning (research sources, analysis, projection) and administration (advertising, promotion, audiences, result measurement), and case study supplemented by conventional lecture and discussion. Prerequisite: MKT 201.

#### MKT 401 (F)

##### MARKETING RESEARCH

3 credits

The use of scientific method in the solution of specific marketing problems and in the conduct of general market research studies: methods of marketing research, gathering data, tabulation and analysis, interpretation of results, and report presentation. Prerequisites: QNT 213, MKT 201, MTH 112.

#### MKT 402 (S)

##### MARKETING MANAGEMENT

3 credits

Integrates all other marketing courses. Study of actual business cases employing managerial approach to marketing; emphasis on decision making and the strategies used by the marketing manager as he adapts his marketing mix to rapidly changing conditions. Prerequisite: senior standing or permission of the instructor.

**MKT 403 (F)****INTERNATIONAL COMMERCE**

3 credits

Factors conditioning the feasibility of direct private foreign investment, recent trends, and managerial problems in operating abroad; case studies of experiences of U.S. firms having foreign operations. Identical with FIN 403. Prerequisites: MKT 201, FIN 201.

**MKT 405****MARKETING CHANNELS**

3 credits

The marketing approach to physical distribution focusing on transportation, warehousing, channels, physical distribution systems, geography, material handling and planning and their effect on successful marketing. Prerequisite: MKT 201.

**MKT 450****COOPERATIVE EDUCATION**

3 credits

A full-time paid marketing position coordinated with academic learning experiences under faculty supervision. Contact the office of Career Planning and Placement for further information.

**SPECIAL TOPICS****MKT 271****CONSUMER BEHAVIOR**

3 credits

A study of the consumer to allow the marketing manager to develop better marketing strategies. The course looks at the complex nature of the human being in terms of the social, cultural, psychological, and economic dimensions of man as they apply to this decision making and acquisitive nature. Prerequisite: MKT 201.

**MKT 272****RETAILING**

3 credits

A study of the managerial aspects of the retail institution as part of the total marketing system. The course concentrates on the environmental forces impinging on the system, the role of retailing and the management of retail institutions. Prerequisite: MKT 201.

**MKT 273****PRINCIPLES OF PURCHASING**

3 credits

A study of purchasing principles applicable to industrial firms, wholesalers, retailers, and government procurement agencies. Relationship between marketing and purchasing functions. Legal considerations of contracts and agency. The art of negotiation, cost/price analysis as it affects buyer and seller. Prerequisite: MKT 201.

**139****OPERATIONS MANAGEMENT**

(See Management)

**ORGANIZATIONAL BEHAVIOR**

(See Management)

**PERSONNEL AND LABOR RELATIONS**

(See Human Resource Management under Management listing.)

**QUANTITATIVE ANALYSIS**

(See Management)

**RISK MANAGEMENT AND INSURANCE MINOR**

Coordinated by: James M. Kelly, Ph.D., Finance Department  
 Associate Professor J. Kelly  
 Lecturer: McNichol



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**Required for Minor in Risk Management and Insurance: (6 courses required)**

Non-business majors: at least 3 RMI courses.

Business majors: at least 4 RMI courses.

- RMI 301, 302, 311, 312, 313, 314, 420.
- ACC 101; FIN 300; LAW 201; QNT 213.

**RMI 301 (F)****FUNDAMENTALS OF RISK AND INSURANCE**

3 credits

Introduction to the underlying principles, practices, and the legal aspects of risk management and insurance; survey of life, health, fire, marine, fidelity and corporate surety, workers' compensation, title, and credit insurance.

**RMI 302 (S)****INTRODUCTION TO LIFE INSURANCE**

3 credits

The problems of alternative techniques for insuring of human life values considered from the differing viewpoints of the company, the economy, and the consumer. Financial needs in the life cycle of the family; estate planning; elements of business insurance, such as group life and health insurance and pensions planning; mortality; underwriting; and regulation of reserves.

**RMI 311 (S)****HEALTH CARE INSURANCE**

3 credits

An interdisciplinary approach to the techniques and problems of financing health care with emphasis on prepayment devices, including medical insurance benefit systems, Blue Cross-Blue Shield prepayment plans, independent prepayment plans, and medical expense benefits through social insurance and social welfare programs. Effects of financing methods on the availability, quality, and planning of health care explored.

**RMI 312 (S)****PROPERTY AND LIABILITY CONTRACTS**

3 credits

Detailed examination of the major commercial policies and forms as well as the principal individual policies. Included are fire and allied lines, business interruption and extra expense coverage, ocean and inland marine, crime, liability, auto and workmen's compensation policies along with bonding. Prerequisite: RMI 301.

**RMI 313 (F)****PENSION PLANNING**

3 credits

An examination of private pension plans, including historical background, regulatory environment, benefits and costs. Topics include costs computation methods, benefits formulae, inflation impact, plan membership profile, accounting and tax considerations, and management of fund assets including portfolio considerations. Profit sharing plans and individual retirement plans are also covered. Same as Finance 313. Prerequisites: RMI 301 and 303, and FIN 300.

**RMI 314 (F)****RISK MANAGEMENT**

3 credits

Designed to acquaint the student with the nature of risk management and the role of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment. Historical and forecast financial statements are scrutinized for the purpose of risk identification. Same as FIN 314. Prerequisites: RMI 301 and QNT 213 (or equivalent).

**RMI 420 (S)****FINANCIAL MANAGEMENT OF THE INSURANCE FIRM**

3 credits

A functional course emphasizing the interrelationships among underwriting, investment, regulation and other aspects of insurance company and insurance agency operations. Dynamic computer models of a property-liability insurer and a life insurer are used to demonstrate effective financial management of the insurance firm. Same as FIN 420. Prerequisites: RMI 301 or 302 and FIN 300.

# Directory



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*Brother Patrick Ellis, President*

# Administration

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# La Salle in pictures



*Olney Avenue Entrance*



*Campus Mall*



*Hayman Hall*



*La Salle Union*



*Wister Annex-Library*



*Dunleavy Room*



*Wister Annex-Library*



*College Hall*



*TV Studio*



*Holroyd Science Center*



*Quadrangle*



*La Salle Union Ballroom*



*Art Gallery*



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# ACADEMIC CALENDAR

## 1987-1988

### Fall Semester

August 31-  
 September 2  
 September 9  
 September 15  
 October 25  
 November 2  
 November 10  
 November 17  
 November 26-27  
 December 14  
 December 15  
 December 16-22  
 December 23

On-campus registration—9:00 A.M. to Noon  
 Beginning of classes  
 Last day for change of roster  
 Academic Convocation  
 Mid-semester holiday  
 Mid-semester grades due  
 Last day for withdrawal from courses  
 Thanksgiving holidays  
 Classes end for fall semester  
 Reading Day  
 Final examinations  
 Snowdate for Finals

1987						
AUGUST						
S	M	T	W	T	F	S
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

SEPTEMBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

OCTOBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

NOVEMBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

### Spring Semester

January 11-13  
 January 18  
 January 22  
 March 7-11  
 March 15  
 March 22  
 April 1  
 April 5  
 April 29  
 May 2-6  
 May 15

On-campus registration—9:00 A.M. to Noon  
 Beginning of classes  
 Last day for change of roster or removal of "I" grades  
 Mid-semester holiday  
 Mid-semester grades due  
 Last day for withdrawal from courses  
 Easter recess begins  
 Classes resume at 8:30 A.M.  
 Classes end for spring semester  
 Final examinations  
 Commencement

1988						
JANUARY						
S	M	T	W	T	F	S
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEBRUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29						

MARCH						
S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL						
S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

MAY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



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